Maritime Information Systems AS

MBA
User Manual

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INTRODUCTION

Master Bridge Assistant (MBA) is a multi-database service and software package designed to help reduce the workload of the ship's deck officers. MBA allows calculating, optimizing and updating charts and publications required for a specific voyage.

MBA services are based on:

- One software package, MBA, installed on board the ship
- One server, MBA Server, hosting several SQL databases
- Communication between MBA client and MBA server

Master Bridge Assistant, the software installed on board is designed to assist the navigator and provides:

- Graphical display of chart and publications catalogues.
- Graphical Display of Folios on board, Permits and Charts status.
- Route planning.
- Building and optimizing required charts and publications along the route.
- Management, ordering, and update of paper charts.
- Management, ordering and update of electronic charts, ENC, AVCS and ARCS.
- Production of voyage plan linked to the route.
- Update of electronic publications, ADLL and ADRS
- Dynamic weather and current forecasting.

MBA Server is processes automatically MBA ship's requests and sends back updates.

The communication between the ship and the shore is based on email or HTTP access and works in 2 ways:

- On request: request is sent from MBA on board, automatically processed on the server and the reply sent back to the ship.
- Push technology: every time a new update related to the ship's portfolios is available the update is pushed by email to the ship.

GETTING STARTED

SYSTEM REQUIREMENTS

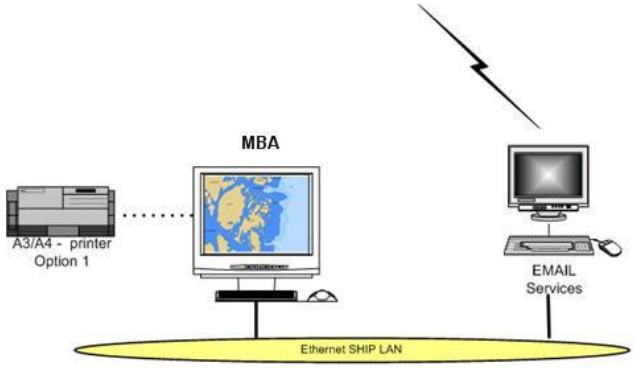
MBA AND COMMUNICATION METHOD

MBA ship application communicates with the server, sending Request to MBA server, and receiving replies containing data updates.

With MBA 3 communication methods can be used;

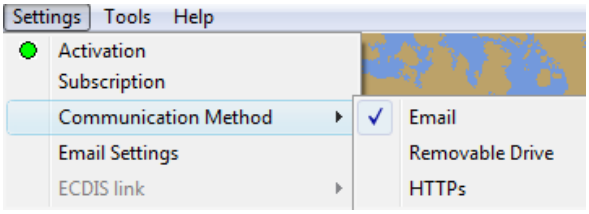
- **EMAIL:** MBA PC is connected to the ship LAN and the ship's email server is available
- **HTTPS:** MBA PC is connected to ship LAN and internet is available
- **Removable Drive**: MBA PC is not connected to ship LAN

EMAIL MODE



MBA is installed on a PC connected by LAN to the email Server application.

Configuration: Menu "**Settings"**



All MBA requests are sent by email.

The MBA server replies to the requests by email. It also sends by email all updates to the ship when available, weekly for the electronic charts, daily for the weather forecasts.

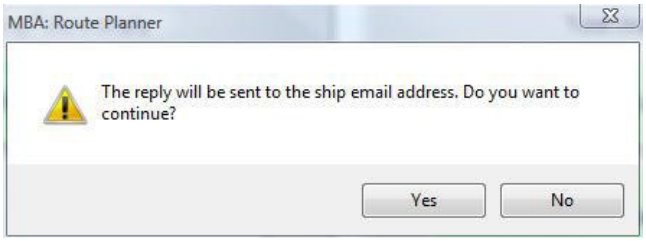
SEND REQUEST (EMAIL MODE)

Email requests created in MBA are directly sent to MBA server.

There are different types of requests:

- Activate: to register MBA on the server
- Check My Status: to synchronize the charts catalogues
- Order permits or chart update
- Order weather forecasts or publications updates

Replies are sent back to the ship email address which has been setup in Subscription option



RECEIVE REPLY (EMAIL MODE)

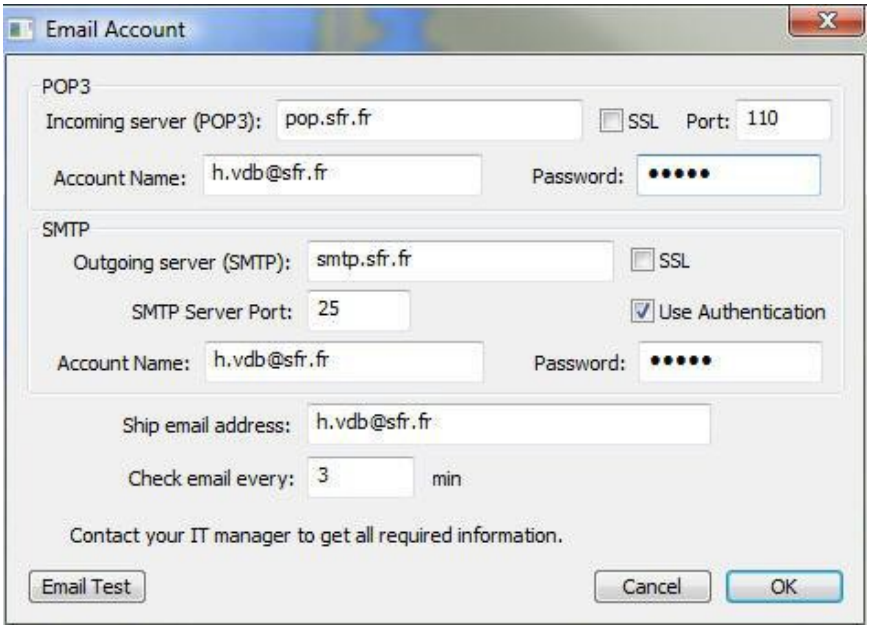
Emails received from MBA server are automatically picked up in the Pop server. This is done periodically according to email setting parameter: "Check email every xx minutes".

However, the user can force MBA to check the the mail box by using the menu "**Tools/Check Inbox**".

Check carefully Email Account paragraph for Email setting.

EMAIL ACCOUNT

Select Menu "Setting/Email Settings"


Email Account
POP3
Incoming server (POP3):
pop.sfr.fr
SSL
Port:
110
Account Name:
h.vdb@sfr.fr
Password:
SMTP
Outgoing server (SMTP):
smtp.sfr.fr
SSL
SMTP Server Port:
25
Use Authentication
Account Name:
h.vdb@sfr.fr
Password:
Ship email address:
h.vdb@sfr.fr
Check email every:
3
min
Contact your IT manager to get all required information.
Email Test
Cancel
OK

ATTENTION: Contact the ship's IT Manager before filling the form

1. To get all information related to email account (Pop&Smtp servers, login and password).
2. To get the information about an eventual size limit for received email.
3. To make sure that the email service on board does not reject email with attached file.

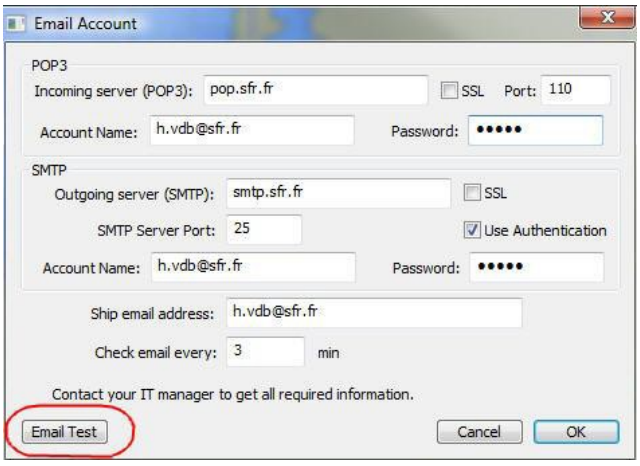
Enter the email set up information in the ***Internet account*** box:

- Incoming mail (Pop3)….(to receive email)
- Email account name (This is the log-in name).
- Email password.
- Outgoing mail (SMTP)…. (to send mail)
- Eventual additional information depending on your email provider
    - POP server port number (110 by default)
    - SMTP server port number (25 by default)
    - Authentication
- Email address of the ship

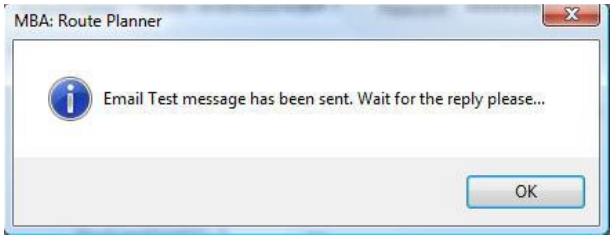
If the account name, password or SMPT server address has been incorrectly entered the email will not be sent and the MBA Manager will display an error dialog asking the user to modify the parameters. If the error persists, the user should check these parameters with the IT department.

EMAIL TEST

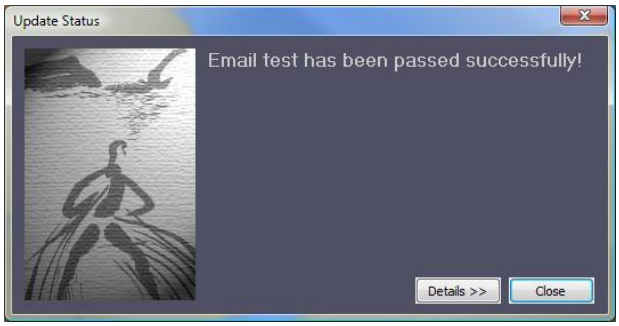
The EMAIL test function allows to validate that the email set up is correct and MBA able to send and receive emails



1. Push the button "Email test". The email test consists in sending to your ship's address an email with a standard MBA attachment and checking that your email server can send and deliver this email with the correct attached file.
2. MBA displays a message when the email is sent.



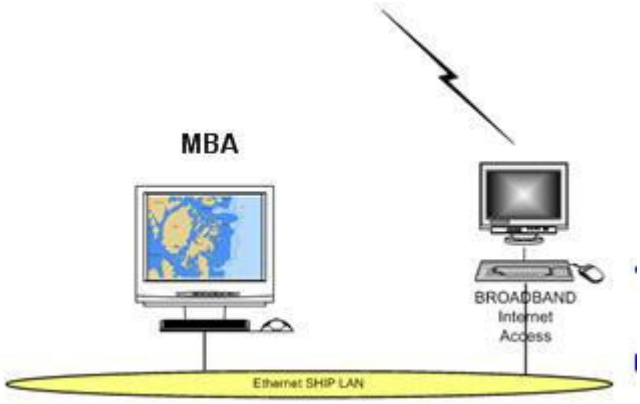
3. If the email cannot be sent it means that the SMTP server parameters are wrong and the Internet Email dialog is displayed again. Check carefully with your IT manager the information related to SMTP server, IP address, eventually authentication and port number.
4. **IMPORTANT:** WAIT FOR THE EMAIL TO BE RECEIVED ON BOARD (It can take several minutes depending on the internet provider).
5. When the email is received MBA, MBA checks if the email and its attachment are consistent and reject inconsistent email (Wrong subject or attachment, corrupted content).
6. If the email is not received after a sensible period of time, contact your IT manager for him to check that:
    a. The email with the subject "RE:MDS" and the attached file Request123.MDS has been correctly sent to the ship's email address
    b. This email has been received by the ship's email server
    c. This email has not been deleted from the pop3 server.
    d. After correcting any error, the test must be run again. Start again from 4 above.



Email Test successful

HTTPS MODE

CONFIGURATION



MBA is installed on a PC which can access Internet using broadband access.

HTTPS mode is possible only if there is a broadband Internet accessavailable on board.

HTTPS mode is the optimum set up. MBA client is connected directly to MBA server for database synchronization and all missing data will be automatically transferred and installed on the client MBA without delay or user action.

The application **MBACLI** (for MBA Client) is installed on the MBA client PC and handles the direct communication between MBA client on board and MBA server on shore, by sending Request and receiving Replies during the session.

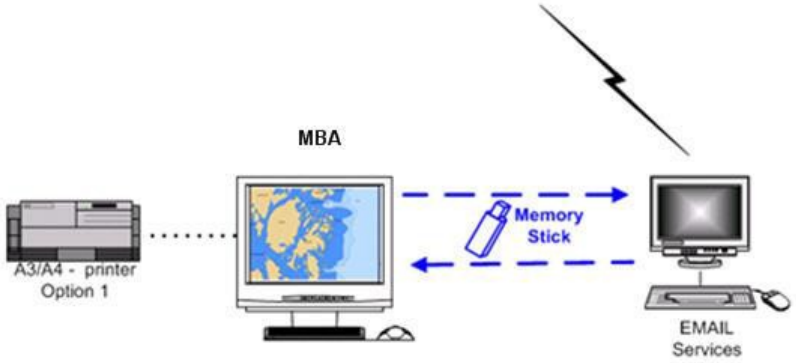
SEND REQUEST AND RECEIVE REPLY IN HTTPS MODE

MBACLI automatically runs each time MBA Client needs to communicate with MBA server, establishes the communication by sending login and password and transfer information to and from the client to the server.

MBACLI application icon is displayed bottom right of the window when running.

REMARK: Weekly Updates are not handled by HTTPS connection because they are sent ONLY automatically by Email. In HTTPS communication mode you must set up the email account to be able to receive weekly updates. If the email account is not set up, the weekly updates for the charts are done during the next HTTPS session.

REMOVABLE DRIVE MODE

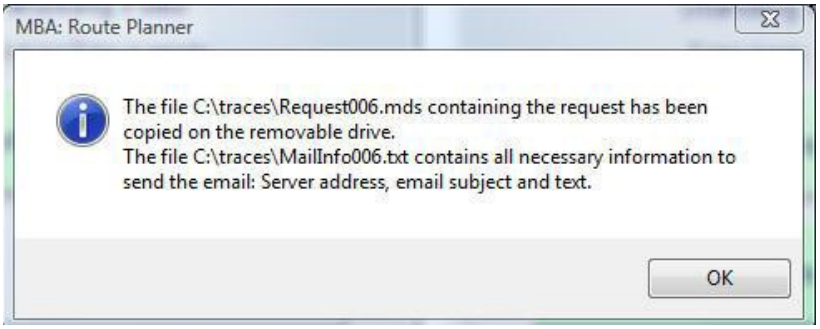


This configuration uses a Memory Stick to transfer data between the MBA PC and the communications PC on board.

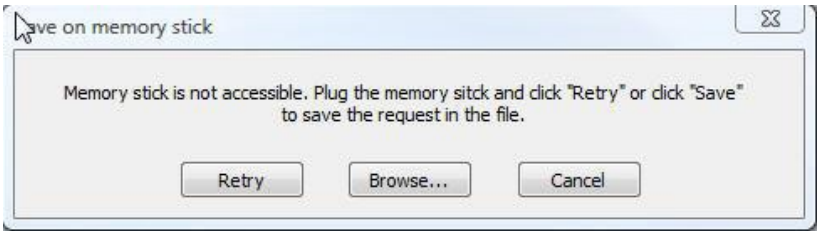
This configuration uses a **Memory Stick** to transfer data between the MBA PC and the communications PC on board. The same files (Request or Replies) are sent or received to or from MBA server, using any email client running on the communication PC (Outlook, Thunderbird...)

SEND REQUEST FROM REMOVABLE DRIVE

When an MBA request is created, the following window will display Request number and file saved on Removable Drive.


MBA: Route Planner
The file C:\traces\Request006.mds containing the request has been copied on the removable drive.
The file C:\traces\MailInfo006.txt contains all necessary information to send the email: Server address, email subject and text.
OK

If no Removable Drive available, then it will be possible to save Request Files in a temporary folder


ave on memory stick
Memory stick is not accessible. Plug the memory sitck and click "Retry" or click "Save" to save the request in the file.
Retry
Browse...
Cancel

SENDING A REQUEST FROM A MEMORY STICK

To send to MBA server a request created in MBA Manager, proceed as follow:

1. Plug the memory stick into the PC running the email application.
2. Open the text file called MailInfoXXX.text containing all instructions to send email

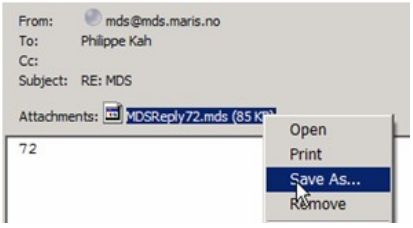
```
Address: chartservice@chartservice.maris.no
Subject: MDS
Text: 166
Attachment: Request166.mds
```

3. Create a new email with your email application (Outlook, Lotus Notes or…)
4. Copy the MBA server address into the new email address field.
   - Copy the subject "MDS" and into the new email Subject field.
   - Attach the file RequestXXX.mds to the email.
   - Place the Attachment number in the text field.
5. Send the email

RECEIVE REPLY USING REMOVABLE DRIVE

1. The Reply from MBA server consists in **ONE or SEVERAL emails** with subject **RE: MDS** and an attached file called:
   - MDSReplyXXX.mds (MDSReply76.mds for example) when there is only one email
   - MDSReplyXXX_yyzz.mds when there are several emails, The suffix yyzz being the individual and total number of email attachments sent. (MDSReply77_0102.mds and MDSReply77_0202.mds where 2 replies with attachments are received).

2. Insert the memory stick in the email PC
3. Save the attachment(s) on the memory stick



4. **IMPORTANT:** when the attached file has a suffix after the request number, _0102 for example in MDSReply77_0102.mds, it means that MDS server has sent 2 or more emails. The two attached files MUST be copied on the memory stick: MDSReply77_0102.mds and MDSReply77_0202.mds in this example.

APPLYING UPDATE IN MDS

When a Reply is received from MBA server, the user must apply the updates in MBA:

1. Insert the memory stick in the MBA PC.
2. Select in Menu "Tools" and "Apply Updates"
3. Select one of the MDSReplyXXX.mds files with the correct attachment number from memory stick in the drop down list and L/click the OK button

INSTALLING MBA CLIENT APPLICATION

See Installation Manual.

STARTING MBA

The screen is divided in several parts:

- Main part is the world map for Route Planner.
- Menu in the top
- Left side a list of buttons to access the different managers
- Bottom of the window with contextual information or buttons.
- Right side a console windows with displays panels and buttons to access

When selecting one of the managers (Paper charts, ARCS, etc ...) a list of panels is displayed on top of the window

FINDING INFORMATION IN THE HELP

- From the Help menu, click Contents & Index.
- If the left-hand pane isn't visible, click Contents, Index, or Search.
- In the Help window, do the following:

Click:	**To:**
Contents	View the table of contents for the online Help. Click each book to display pages that link to topics, and click each page to display the corresponding topic in the right pane.
Index	Search for specific words or phrases or select from a list of index keywords. Click the keyword to display the corresponding topic in the right pane.
Search	Locate words or phrases within the content of your topics. Type the word or phrase in the text field, press ENTER, and select the topic you want from the list of topics.

ACTIVATION

MBA should be activated, using **Login** and **Password** given by MARIS Chart Service, and setup for the relevant License.

The **three** Communication methods Email, HTTPS, Removable Drive can be used to send Activation Request, as any other request.

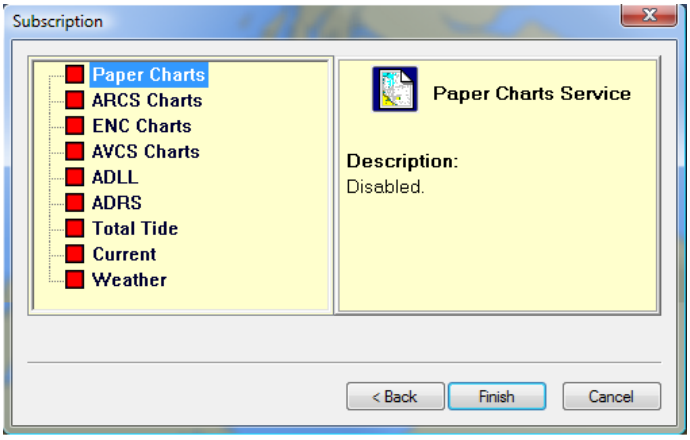
GENERAL

To be able to Order product and receive weekly updates for Paper, ENC, AVCS or ARCS for all charts and publications in the ***Working Folios***, the user must:

- Activate MBA Ship Application.
- Subscribe to selected services.

After installation, MBA is showing status "NOT ACTIVATED" in top of the window. In Menu Settings, Activation is alighted in Red.

Subscription page is showing Red Status for all services and all requests will be rejected.



MBA is activated successfully if:

1. The activation request as been sent to MBA server
2. The server has sent back the Activation Reply which has been applied it successfully.

ACTIVATION PAGE

In Menu Settings, Select Activation

Status is NOT ACTIVATED

Enter Login and Password provided by MARIS Chart Service.

Press "**Finish"** to send the Request

Activation
NOT ACTIVATED
Login:
Password:
Please enter your Login and Password and press the Finish button.
The generated email must be sent to MBA server.
If a memory stick is used follow the instructions described in the file MailInfo.txt located on the memory stick.
Wait for an email answer from MBA server and follow the instructions given.
< Back
Finish
Cancel

IMPORTANT

If you are already registered in MARIS as MBA client, and if Ship Application has to be reinstalled or moved to another PC, use the same procedure, with same Login and Password.

SENDING ACTIVATION REQUEST

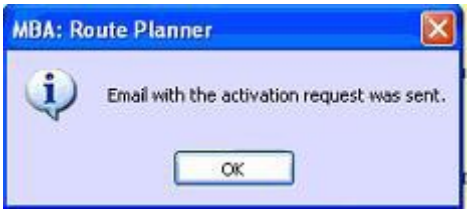
Request is sent after button

is pressed.

MBA Status is now updated to "Waiting for Activation ":

SENDING ACTIVATION USING EMAIL MODE

PopUp window is displayed



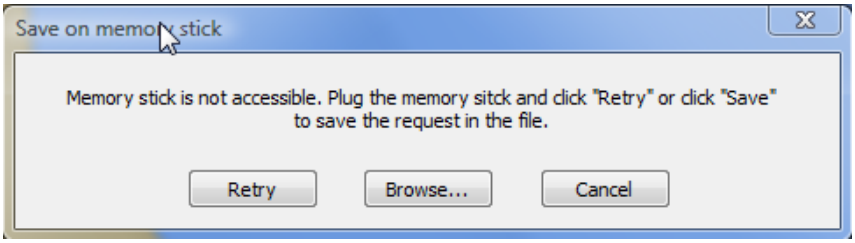
SENDING ACTIVATION USING HTTPS MODE

MBACLi is started.

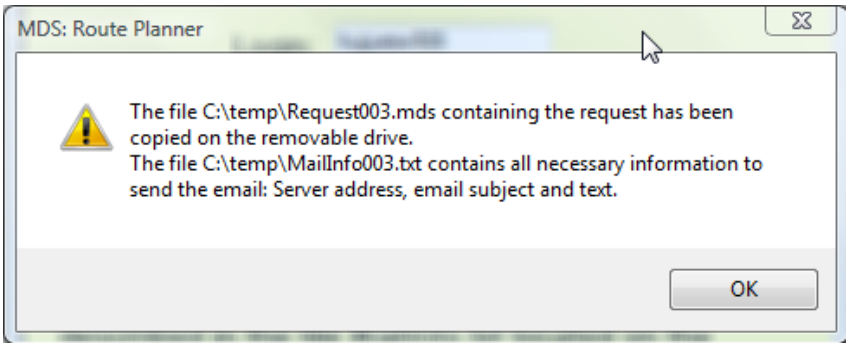
MBACLi: Session Log
16:19:52 Getting active server list
16:19:52 Contacted Load Balancer System Using chartservice.maris.no
Details
16:19:52 Log in to server
16:19:52 Sending credentials to server Authenticated Successfully
16:19:52 MBA Request Req. 23
16:19:53 Data integrity OK. Download successful 717 bytes
16:19:53 Log Out
16:19:53 Sending log out request Logged Out

SENDING ACTIVATION USING REMOVABLE DRIVE MODE

Select Removable drive or Browse to select the Folder


Save on memory stick
Memory stick is not accessible. Plug the memory sitck and click "Retry" or click "Save" to save the request in the file.
Retry
Browse...
Cancel

Request File is stored in the defined folder, with instructions, ready to be sent as attachment by mail to the server.


MDS: Route Planner
The file C:\temp\Request003.mds containing the request has been copied on the removable drive.
The file C:\temp\MailInfo003.txt contains all necessary information to send the email: Server address, email subject and text.
OK

PS . MBA server email address: **chartservice@chartservice.maris.no**

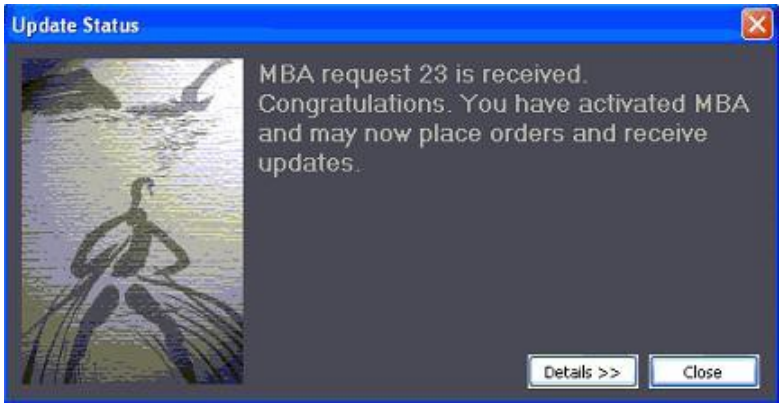
RECEIVING ACTIVATION REPLY FROM THE SERVER

MDSReply file is received and applied automatically (HTTPS or email mode) or after the reply is applied using Apply Update function.

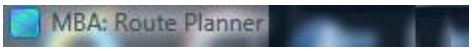
ACTIVATION IS SUCCESSFULLY

When activation is applied successfully:

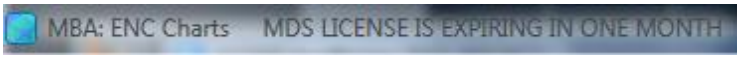
After MBA reply is processed, acknowledgement of registration is displayed.


Update Status
MBA request 23 is received.
Congratulations. You have activated MBA and may now place orders and receive updates.
Details >>
Close

MBA Status is now updated to "Activated, showing Publication tab active:



MBA is activated, Route Planner tab open

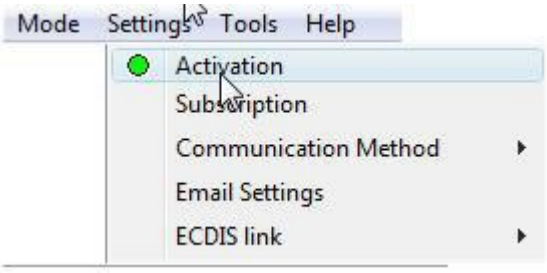


Warning when License will expire within 1 month.

AFTER ACTIVATION

The message "Waiting for activation" **disappears** from the window title.

Menu Settings shows Green Status



In Activation page, "NOT ACTIVATED"

disappears from the top, Login is displayed.

Subscription page shows Services Status:

Activated **Green**

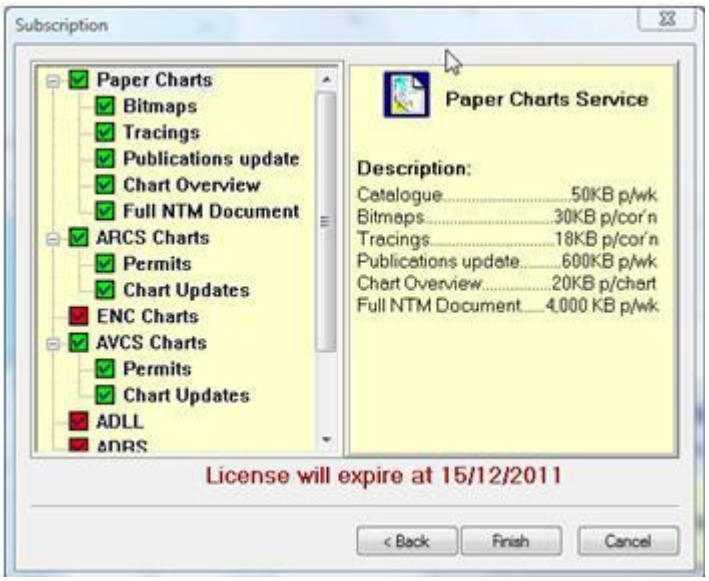
Not Activated **Red**

In example: ENC is not paid,

Paper, ARCS and AVCS are paid and active with all options,

ADLL and ADRS

are not paid



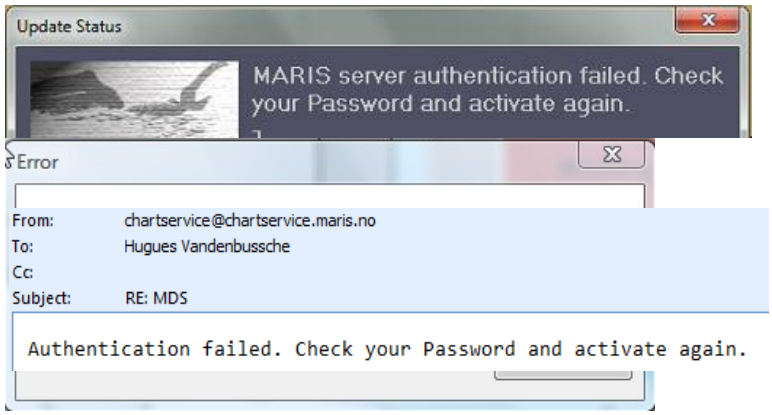
After MBA is Activated, Subscriptions options are available according to initial License setting in the server.

ACTIVATION FAILURE

In case of wrong Login or Password, activation failure is displayed:

Email mode

HTTPS Mode



Removable Drive

SUBSCRIPTION

GENERAL

To be allowed to modify subscription options, MBA must be activated.

Subscriptions Options are divided in 2 parts:

- Email Settings: setup email parameters (address, size limit) for Answer and daily or weekly updates sent by MBA server.
- Subscription Options: It is possible to define the type of data required, and therefore adjust the amount of data transferred.

After MBA is Activated, Subscriptions options are available according to the license setting in the server.

It is possible to modify options using Subscription dialog activated with the Menu "Settings/Subscription"

For each collection, header status is either Green (Service is paid) or Red (service not paid)

Each Time a request is sent, Status for each collection is updated according to server.

If a collection is activated on the server side, sub-services are also updated according to license settings, see example below

Subscription page shows Services Status :

- Activated **Green** : **AVCS** is paid, and license setting includes all AVCS services :
- **Permits** are sent in Server replies
- **Chart Updates** are received automatically on a weekly base.

Send new charts and editions: User is accepting that new charts, meaning big amount of data, can be sent to the ship.

Not Activated **Red: ENC** is not paid. Therefore is not possible to activate subservices like permit ordering or weekly update.

ADLL and ADRS are not paid

The **subscription** to MBA services is accessible by menu Menu "Settings/Subscription" in 5 steps:

- Filling in email addresses and size limit
- Selecting the services.
- Sending the subscription request
- Applying the subscription reply
- Checking that the ordered MBA services are properly activated in MBA

At anytime it is possible to change the subscription and the email addresses and size limit i.e. for example to add a new service to the current subscription.

SERVICES AND OPTIONS

Definition

Service is not paid

Service is paid but deactivated by user.

Service is paid and active: anytime ad when data is not necessary, user can deactivate in order to reduce transmission cost.

Collection/Service		Status
Paper Chart		Service not paid, Disabled
	(1	Service paid, not activated
	(2	Activated, Catalogue in update
Bitmaps, Tracings, Publications update, Chart Overview, Full NTM Document		Included in update (possible if 2) or Not included in update (always if 1)
ARCS Chart		Service not paid, Disabled
		Service paid, not activated
		Activated, Catalogue in update
Permits, Chart Updates, Send new charts and editions option		Included in update (possible if 2) or Not included in update (always if 1) Only If chart Update ON
ENC Chart		Service not paid, Disabled
		Service paid, not activated

(2) Activated, Catalogue in update

Permits, Included in update (possible if 2) or

Chart Updates, Not included in update (always if 1)

PAYS mode (OFF or ON)

PAYS Only If chart Update ON

Send new charts and editions option

AVCS Chart Service not paid, Disabled

(1) Service paid, not activated

(2) Activated, Catalogue in update

Permits, Included in update (possible if 2)

Chart Updates, or

Not included in update (always if 1)

Send new charts and editions option Only If chart Update ON

ADLL, ADRS, Total Tide Service not paid, Disabled

Service paid, not activated

Activated, Weekly Update

Current Service not paid, Disabled

(SAT Ocean, Graphical)) Request Activated

Manually defined Request Activated

Weather Service not paid, Disabled

Service paid, not activated

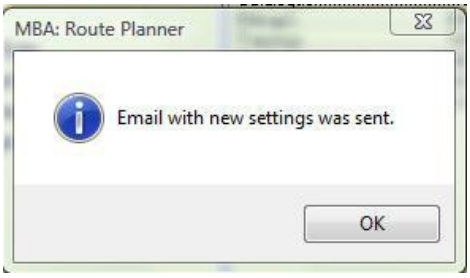
Activated, daily update

Voyage Plan Service not paid, Disabled

Activated, daily update

SENDING SUBSCRIPTION REQUEST TO MBA SERVER

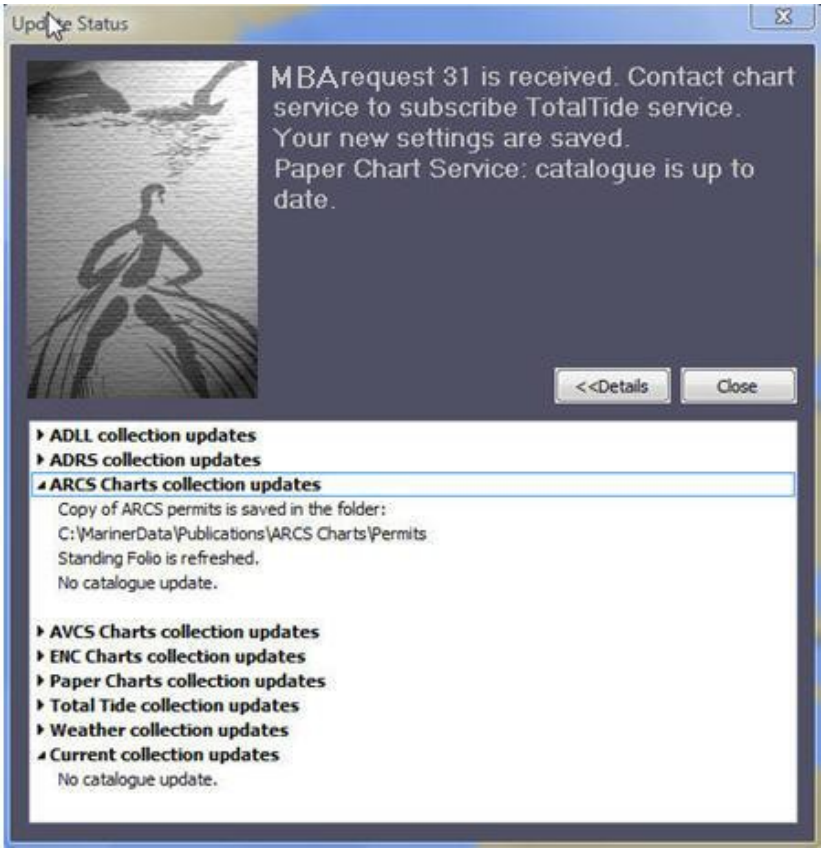
After clicking the button **Finish** in the last page of the Registration wizard, the request is created and sent according to Communication method (See ***Starting MBA***)



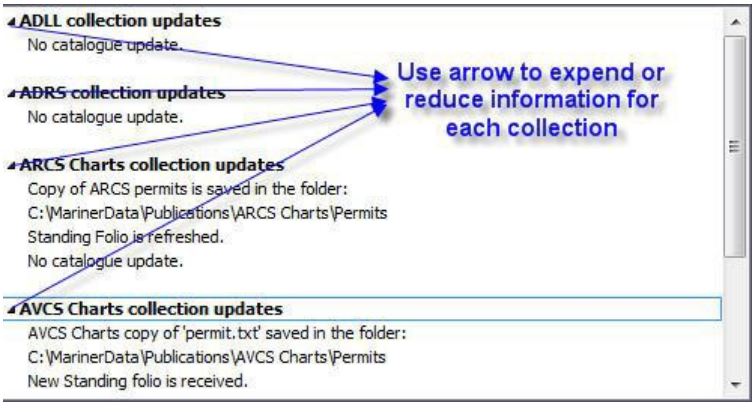
New Subscription request was sent

CONFIRMATION OF SUBSCRIPTION

When the subscription reply is received and properly applied in MBA the following confirmation is displayed:


Update Status
MBArequest 31 is received. Contact chart service to subscribe TotalTide service.
Your new settings are saved.
Paper Chart Service: catalogue is up to date.
<<Details
Close
ADLL collection updates
ADRS collection updates
ARCS Charts collection updates
Copy of ARCS permits is saved in the folder:
C:\MarinerData\Publications\ARCS Charts\Permits
Standing Folio is refreshed.
No catalogue update.
AVCS Charts collection updates
ENC Charts collection updates
Paper Charts collection updates
Total Tide collection updates
Weather collection updates
Current collection updates
No catalogue update.

All Information is displayed by default, but can be hidden clicking arrow as following :


ADLL collection updates
No catalogue update.
ADRS collection updates
No catalogue update.
ARCS Charts collection updates
Copy of ARCS permits is saved in the folder:
C:\MarinerData\Publications\ARCS Charts\Permits
Standing Folio is refreshed.
No catalogue update.
AVCS Charts collection updates
AVCS Charts copy of 'permit.txt' saved in the folder:
C:\MarinerData\Publications\AVCS Charts\Permits
New Standing folio is received.
Use arrow to expend or reduce information for each collection

The subscription reply contains information about which MBA services are activated on the server side and MBA displays this information in the second page of the Subscription Option dialog.

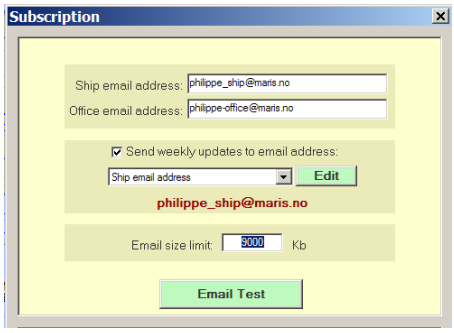
REMARK: when subscription is changed, it is necessary to restart application to get list of available publication updated.

After installation, and before MBA activation, only Paper Chart publication will be displayed

CHANGE IN SUBSCRIPTION OR OPTIONS

Use menu "**Setting/Subscription**" ,modify the subscription in page 1 or 2, press Finish and wait for confirmation.

SUBSCRIPTION SET UP PAGE



EMAIL ADDRESSES

The ship and office email addresses are mandatory fields and must be filled in.

In email mode, any request received by the server is answered to "ship email address"

Receiving weekly update from server:

- By default the check box "Send weekly update to the address" is checked ON
- When the check box is ON the weekly updates are sent to the selected email address which is per default the ship email address
- To select another address click on the small arrow and select the address in the pop up list
    - To add an email address to the list select new
    - The same dialog is also available in "Order" page.
    - If MBA-Storage is selected the weekly update are not sent to the ship but are stored in MBA server and accessible by request.
- If the check box is checked OFF the weekly updates are not sent by email but are stored in MBA server and accessible by request.

EMAIL SIZE LIMIT

All email providers have a size limit to the email to be sent to the ship. If the email size exceeds the limit the email is rejected by the internet provider Therefore it is extremely important to enter the email size limit in the subscription wizard.

The MBA Server always checks that the size of the email sent back to the ship does not exceed this limit.

When a file containing an update exceeds the size limit, the server splits this file into two or more files with a smaller size before sending them. Then two or more emails with attachment are sent back by MBA server.

Example:

When the reply to the request 044 is split in 3 files the attached files are named:

- mdsreply044_0103.mds
- mdsreply044_0203.mds
- mdsreply044_0303.mds.

The two last digits of the name, **03** in the case mdsreply044_01**03**.mds, indicate the number of emails you have to receive for this request.

Where several files are sent, it is necessary to place them all on the memory stick and then transfer them to the MBA PC.

NB. If one file is missing the update will not be applied

OPTIMIZING COMMUNICATION COSTS

By default MBA server sends back the reply to the ship's email address. To minimize the communication costs the strategy must be:

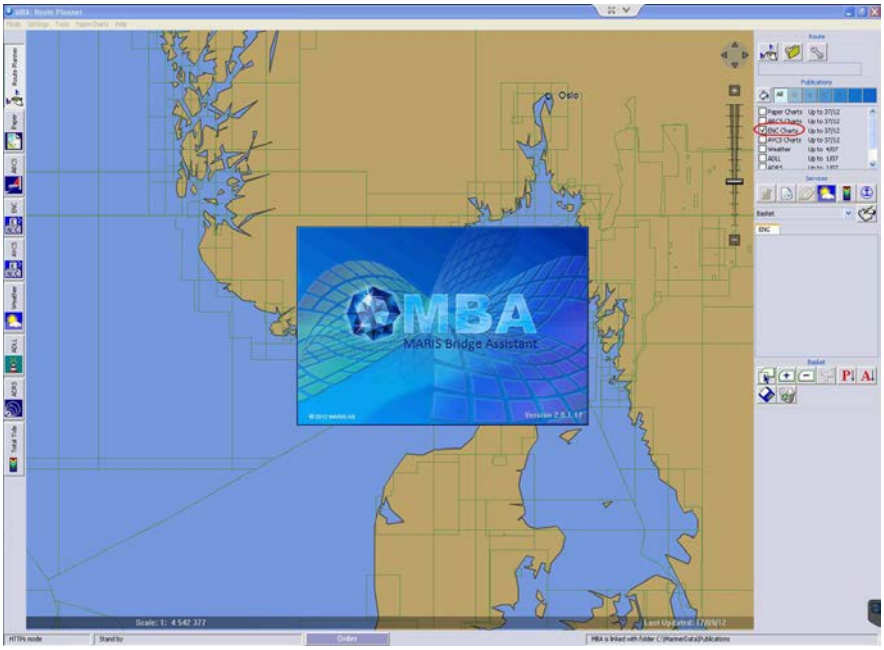
- The navigator receives new permits using satellite communication.
- After installation of the permits in ECDIS the ENC are installed in ECDIS from ENC base CD and update CD.
- When MBA is synchronized with ECDIS MBA displays the missing updates
- The missing updates are then ordered and downloaded from MBA server.
- In addition the navigator must request weekly update to be sent by satellite only for his WF and not his complete collection.
- When approaching the next harbour the navigator requests MBA server to send all missing ENC updates and new charts for the complete Standing folio at the ship's agent email address.
- The ship agent copies the received update on memory stick and updates are applied manually in MBA from memory stick when the ship is in harbour.

An alternative is to request MBA server to send missing ENC updates for the SF to the address MBA-storage. When the communications are cheaper (GSM or WIFI) it is possible to collect the data stored in MBA-Storage by sending an empty email to the address ***mds-restore@mds.maris.no***. When the reply is received follow the instructions given in the email.

USING DIGITAL SERVICE

WORKING WITH MBA

MBA STARTUP PAGE

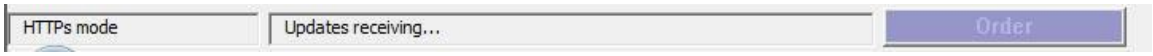


Default startup page is Route Planner. Check on Collection on the top right to display Graphical catalog for the given collection (ENC in the example)

1. To access another service click on the appropriate icon in the list located left side of the window.
   - Paper charts button gives access to BA paper chart manager
   - ARCS charts button opens ARCS manager
   - ENC Charts button opens ENC manager
   - AVCS Charts button opens AVCS manager
   - ADLL, ADRS and Total Tide buttons displays the list of Areas for Digital List of Light or Radio Signals, and Total Tide.
   - Weather button allows displaying and selecting different geographical areas for weather forecasts.
   - Currents data ordering is available in Order Page or graphically from Route Planner.T&P Information available from button
2. System functions are located available by menu and are accessible from all modules.

3. Contextual button are available on the bottom of the window, according to page displayed

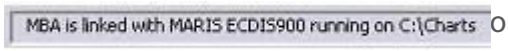
This Bar display current Communication method: here HTTPS mode, and Status is displayed, like "Update receiving" in example bellow:



Or like in email mode, Checking MBA email:

In ENC, AVCS or ARCS Page, Number of permits (expired or will expire) are displayed : 28 in the example.

Bottom right: Status MBA Linked to MARIS ECDIS

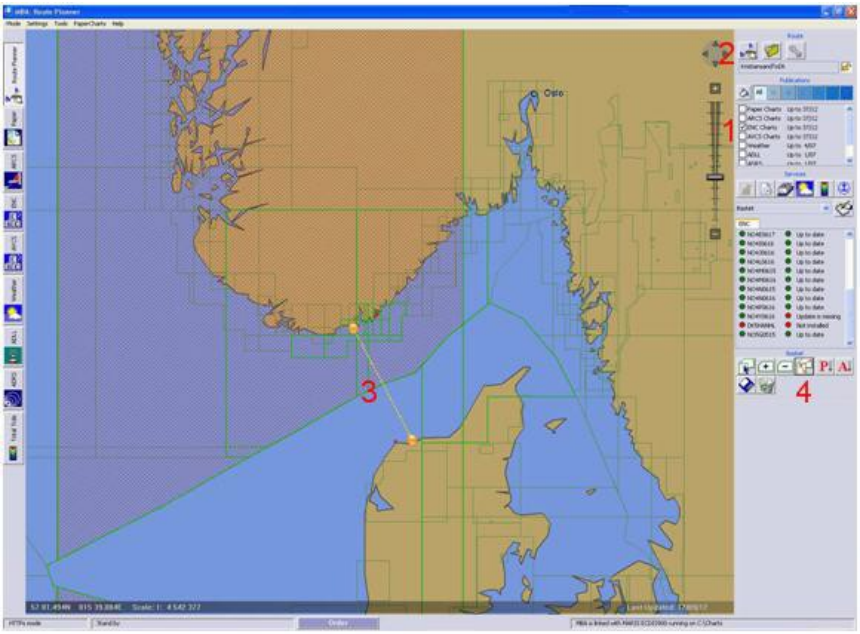


or

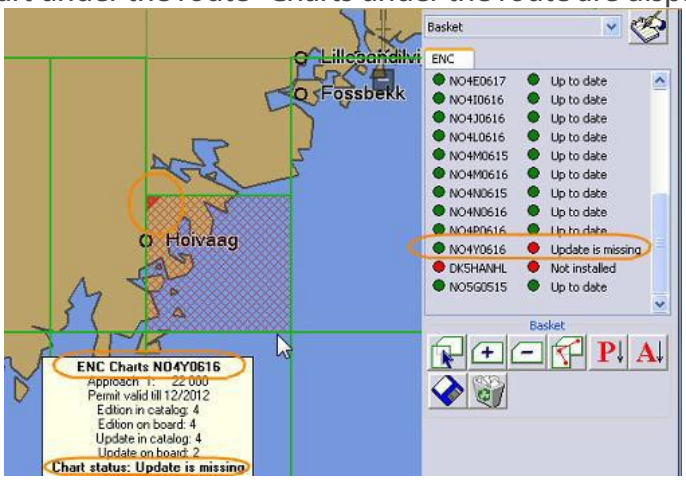
CHARTS COLLECTION STATUS UNDER THE ROUTE

MBA is displaying available charts under a route, and fill up charts which are not up to date with a Red pattern + Red tab, including

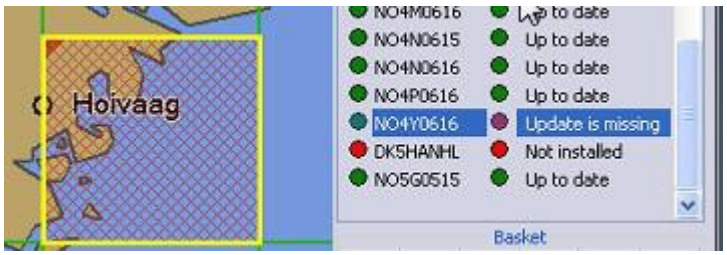
- Charts without permit
- Chart with permit but not installed
- Chart installed but not up to date: (missing update or new edition available). Chart Status is also available in the list of Charts

- 

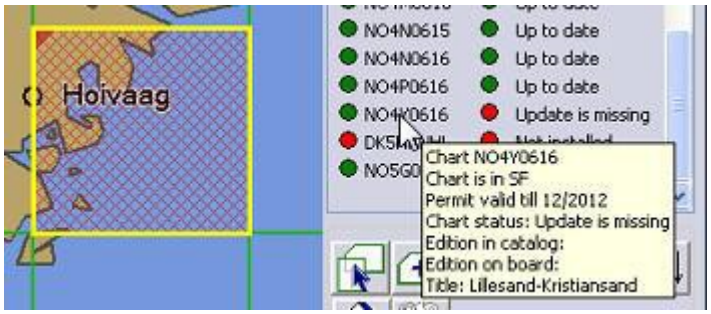
How to proceed:

1. Select the collection to be displayed
2. Activate the route creation mode
3. Plot the route and save
4. Push button “Get chart under the route” Charts under the route are displayed with the status 

Alight border by selecting the chart in the basket list :



Contextual popup is also available in the list

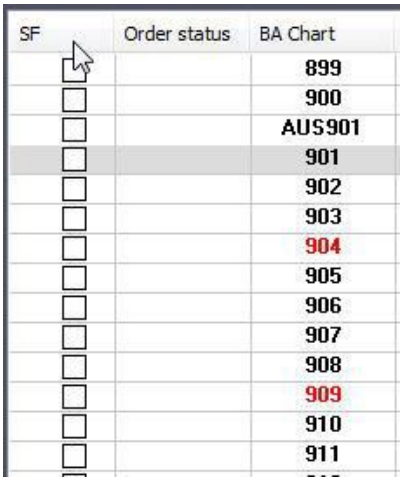


5.2 USING CATALOG PAGES

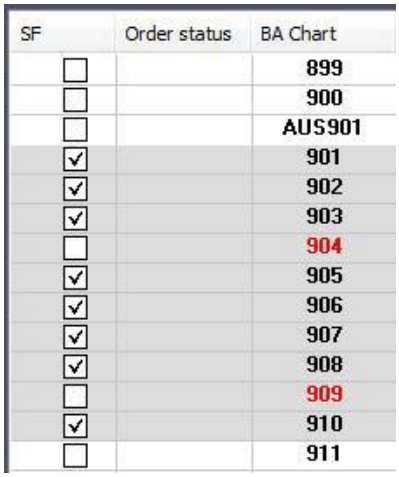
Select Collection Tab left side, (Paper, ARCS, ENC, AVCS), and select catalog Tab.

MULTI SELECTION

Multi selection of charts in the list is possible if relevant, for example to add charts in SF in Paper Chart Catalogue, or add Chart in WF from SF chart list.



Row 901 is selected.



Press Shift and select row 910 in SF column to get all available chart from

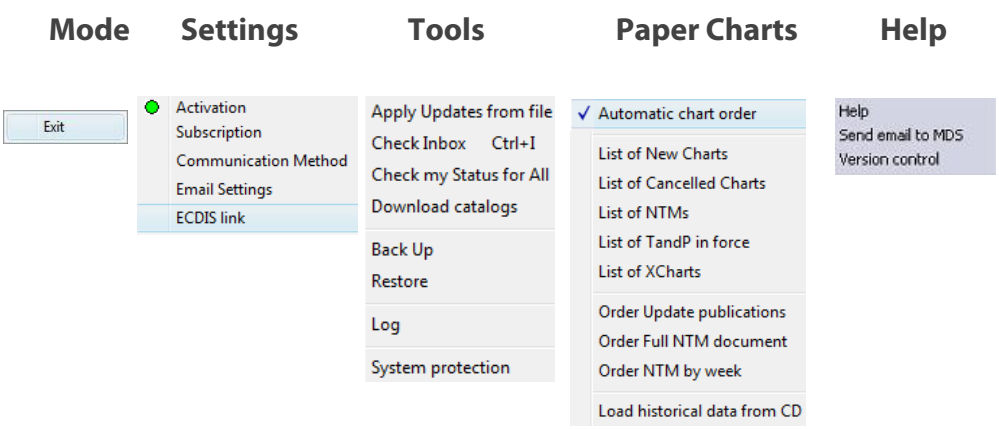
Example for SF setup in Paper Chart collection

SEARCH FUNCTION

Dialog is located in top right of catalogue window. Criteria is applicable for Chart or Product Name and Title.

No filter, the full catalogue is displayed	

MENU OVERVIEW



MENU MODE

To Quit MBA.

MENU SETTINGS

Use the menu Settings to

- Activate MBA
- Modify Subscription options
- Select Communication method (HTTPS, Email, Removable drive)
- Configure email parameters and email addresses
- Link MBA Standing Folios to ECDIS, MARIS or not. (available for ENC, AVCS or ARCS collection only) refer to chapter **Error! Reference source not found.**

HTTPS

Available when PC is connected to internet by broadband access

- Any request can be sent by HTTPS.
- The reply is received during the same session.

REMARK: Regular updates, weekly or daily, are sent from server by email.

MENU HELP

Menu Help is used to:

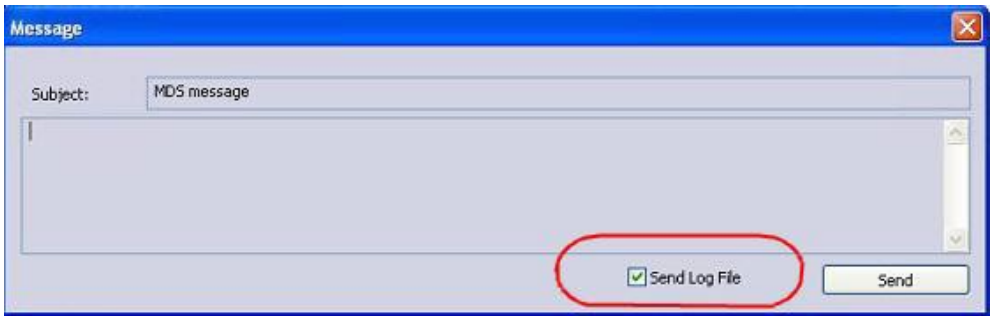
- Open Online Help
- Send email to MBA support
- Control Version installed.

ONLINE HELP

Available when press Help.

SEND EMAIL TO MBA

An email can be easily sent to the server for a Request, and automatic attaching automatically MBA configuration and status files.



Information about MBA is sent to the server.

Attachments: Digital Service Log.txt (26131B); Chart Planner.ini (2121B); E-mail was successfully sent!

MBA e-mail message received and forwarded to Chart Service.

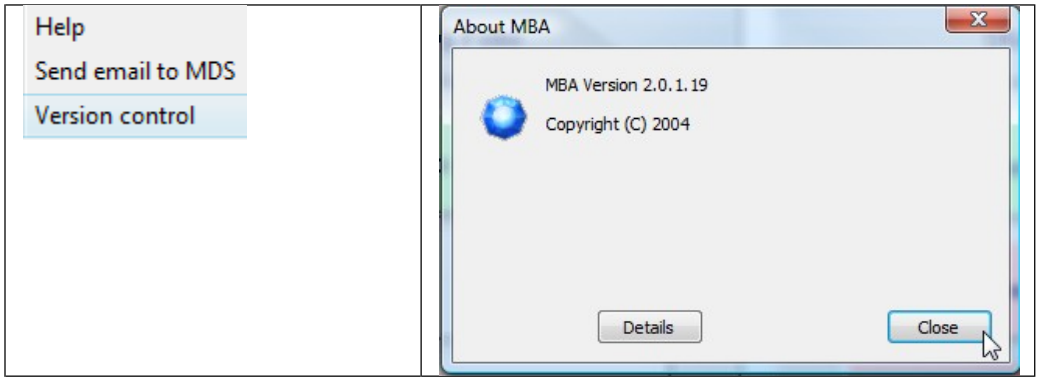
VERSION CONTROL

This Menu allow to

- Check installed version number
- Download and install MBA version upgrades if available on the server.

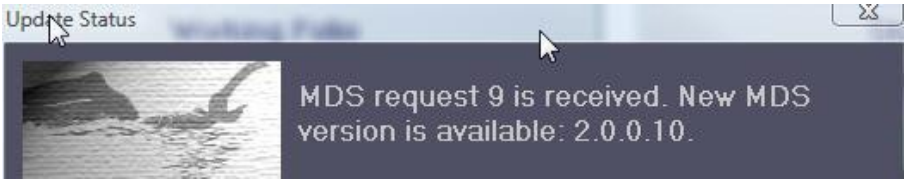
VERSION RUNNING

Use Menu Help/Version control to get version installed:



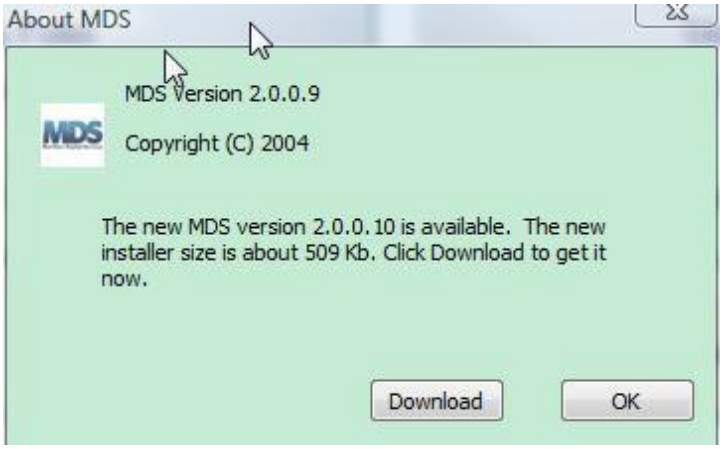
INFORMATION

Check My Status request will inform if a version is available

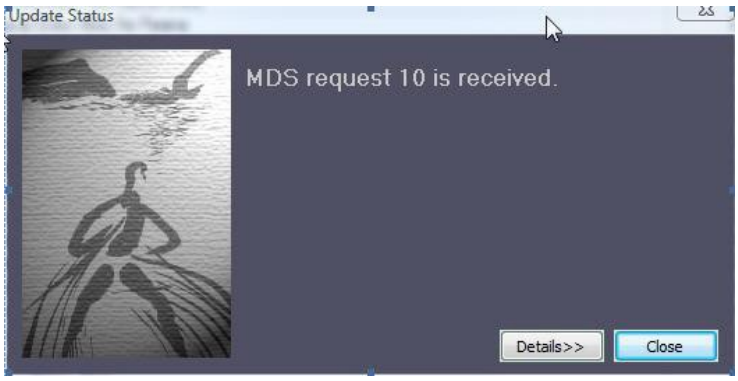


HOW TO DOWNLOAD UPGRADE

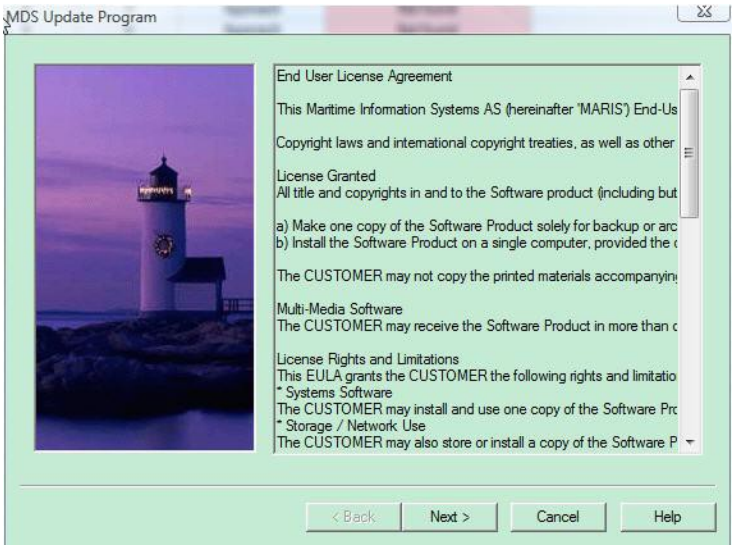
Use Menu Tools/Version control to get version installed:


About MDS
MDS Version 2.0.0.9
MDS
Copyright (C) 2004
The new MDS version 2.0.0.10 is available. The new installer size is about 509 Kb. Click Download to get it now.
Download
OK

Dialog is updated with the new version available and size. Button "Download" is activated.



Update is received, and self extractor is started automatically.


MDS Update Program
End User License Agreement
This Maritime Information Systems AS (hereinafter 'MARIS') End-Us
Copyright laws and international copyright treaties, as well as other
License Granted
All title and copyrights in and to the Software product (including but
a) Make one copy of the Software Product solely for backup or arc
b) Install the Software Product on a single computer, provided the
The CUSTOMER may not copy the printed materials accompanyin
Multi-Media Software
The CUSTOMER may receive the Software Product in more than
License Rights and Limitations
This EULA grants the CUSTOMER the following rights and limitatio
* Systems Software
The CUSTOMER may install and use one copy of the Software Pro
* Storage / Network Use
The CUSTOMER may also store or install a copy of the Software P
< Back
Next >
Cancel
Help

"MBA Update Program" window is open, follow instructions and restart MBA.

MENU TOOLS

Use Menu **Tools to:**

- Apply Update (update from files received from the server)
- Check Inbox (popup email from server)
- Check My Status for all (all collections updated)
- Download catalogs
- Back up data
- Restore data
- Open Log (sent requests and received answers)
- System Protection (Password management, lock MBA setting)

APPLY UPDATE FROM FILE

When an email is received from the MBA server and the attachment copied onto a memory stick push the button "Apply Updates" and select the latest received file to apply the update in MBA.

CHECK INBOX

The application MBA checks regularly the email server for new update received from the server. The user can force manually the application to check the server by left clicking the button. Right click on the button to enter the email set up.

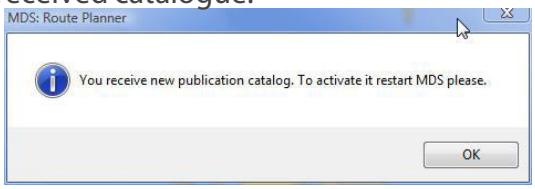
CHECK MY STATUS FOR ALL

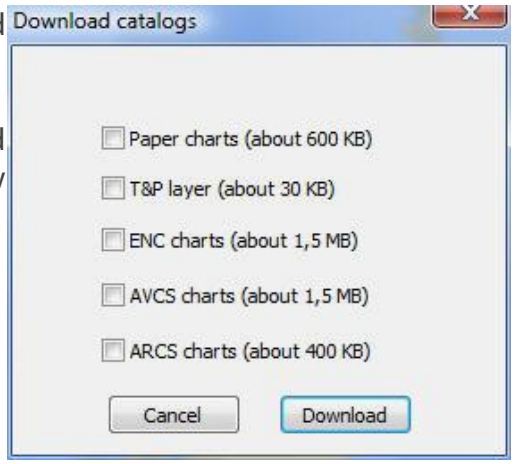
Send "Check My Status" for all collections in one Request.

DOWNLOAD CATALOGS

Select Catalog to download and press "**Download**"

When Answer is applied, MBA should be restarted in order to load the new received catalogue.

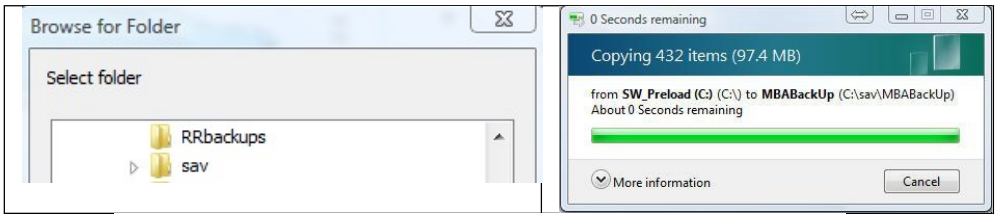


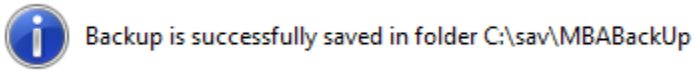


BACKUP RESTORE DATA

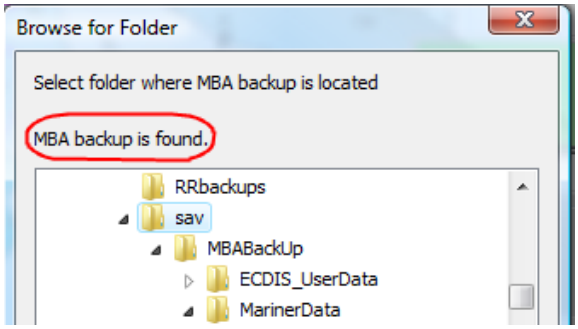
It is recommended to backup every week your MBA installation in order to store historical data and to be able to restore MBA in case of problem of the PC.

- Activate the Menu "Tools/Backup" to backup all user data related to MBA including Route, NTMs and MBA settings.

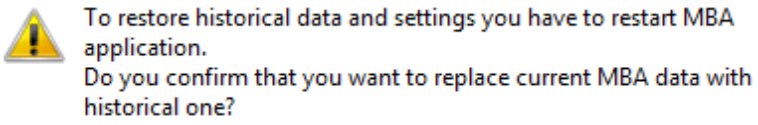




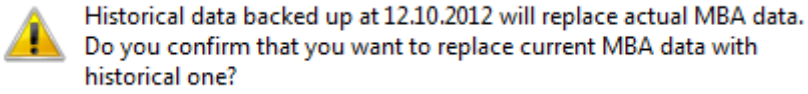
- Activate Menu "Tools/Restore" to restore BA data. Select folder where MBA Back up is located.



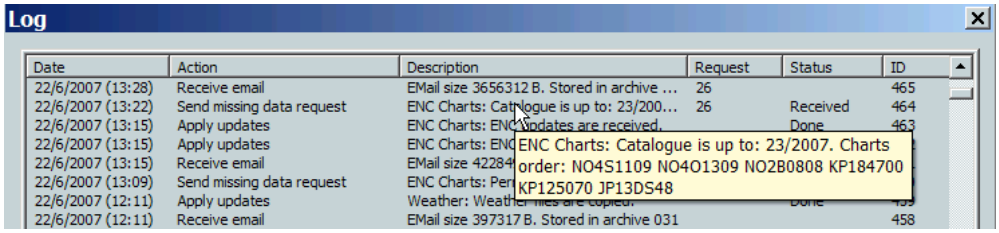
- And confirm:


To restore historical data and settings you have to restart MBA application.
Do you confirm that you want to replace current MBA data with historical one?

Press Yes, Restart MBA and confirm again:


Historical data backed up at 12.10.2012 will replace actual MBA data.
Do you confirm that you want to replace current MBA data with historical one?

LOG REPORT


Log
Date
Action
Description
Request
Status
ID
22/6/2007 (13:28) Receive email EMail size 3656312 B. Stored in archive ... 26 465
22/6/2007 (13:22) Send missing data request ENC Charts: Catalogue is up to: 23/200... 26 Received 464
22/6/2007 (13:15) Apply updates ENC Charts: ENC updates are received. Done 463
22/6/2007 (13:15) Apply updates ENC Charts: ENC
22/6/2007 (13:15) Receive email EMail size 42284
22/6/2007 (13:09) Send missing data request ENC Charts: Per
22/6/2007 (12:11) Apply updates Weather: Weather files are copied.
22/6/2007 (12:11) Receive email EMail size 397317 B. Stored in archive 031 458
ENC Charts: Catalogue is up to: 23/2007. Charts order: NO4S1109 NO4O1309 NO2B0808 KP184700 KP125070 JP13DS48

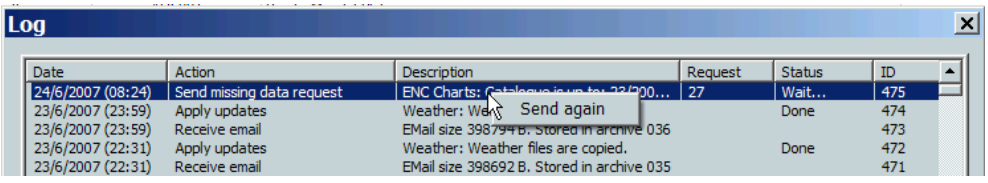
The log records all actions, all requests and all chart installation or update applied. The log allows tracking the requests sent to the server and the replies received from the server to take action if a request is still pending or if an update has not been correctly applied.

Request sent

When a request is sent, one time stamped line is added with a request number, the type of request accessible by moving the cursor on the line and a status which is "**Wait**" until the reply is received.

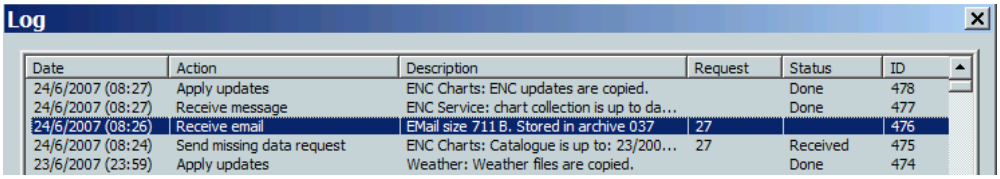
Request Resent

If an reply to a request has not been received on board the request can be resent from the log window by R/Clicking on the line.


Log
Date
Action
Description
Request
Status
ID
24/6/2007 (08:24) Send missing data request ENC Charts: 27 Wait... 475
23/6/2007 (23:59) Apply updates Weather: Wea Done 474
23/6/2007 (23:59) Receive email EMail size 39879 4 B. Stored in archive 036 473
23/6/2007 (22:31) Apply updates Weather: Weather files are copied. Done 472
23/6/2007 (22:31) Receive email EMail size 398692 B. Stored in archive 035 471
Send again

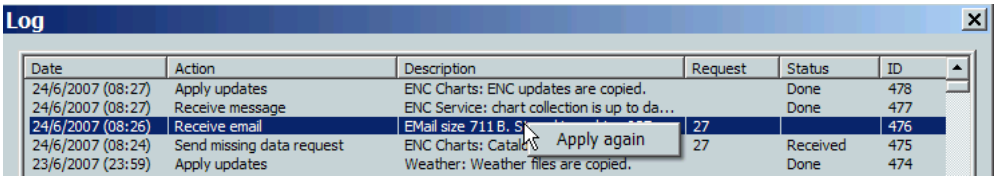
Request received

When the reply of a request is received the status of the request changed from Wait to Received.


Log
Date
Action
Description
Request
Status
ID
24/6/2007 (08:27) Apply updates ENC Charts: ENC updates are copied. Done 478
24/6/2007 (08:27) Receive message ENC Service: chart collection is up to da... Done 477
24/6/2007 (08:26) Receive email EMail size 711 B. Stored in archive 037 27 476
24/6/2007 (08:24) Send missing data request ENC Charts: Catalogue is up to: 23/200... 27 Received 475
23/6/2007 (23:59) Apply updates Weather: Weather files are copied. Done 474

Update Reapplied

If the update has not been applied or if an error occurs during the update procedure after the reply is received it is possible to reapply the update by R/Clicking on the line


Log
Date
Action
Description
Request
Status
ID
24/6/2007 (08:27) Apply updates ENC Charts: ENC updates are copied. Done 478
24/6/2007 (08:27) Receive message ENC Service: chart collection is up to da... Done 477
24/6/2007 (08:26) Receive email EMail size 711 B. S 27 476
Apply again
24/6/2007 (08:24) Send missing data request ENC Charts: Catal 27 Received 475
23/6/2007 (23:59) Apply updates Weather: Weather files are copied. Done 474

SYSTEM PROTECTION

It is possible to lock MBA settings, using this dialog:

Security and System protection
The MBA set up (email settings and link with ECDIS) can be protected by password. It is important to remember your password. We recommend writing down your password and putting it in a secure place.
Change user password
Lock MBA Settings
Need Help?
Close

Protection Dialog: it is recommended to setup a password.

Lock MBA Settings prevent for Email Settings and ECDIS Link modification, by disabling relevant menu.

MBA-RESTORE

All data sent to the ship are stored for a limited time of one month in a WEB site called MBA-storage in a ship's dedicated storage area.

USE OF MBA-STORAGE

MBA-Storage may be used when:

- A reply to a request sent to the server has not been received on board

- One email out of several emails multi replies to a request has been lost, i.e. for example MBAReply2_0102.MBA has been received on board but MBAReply2_0202.MBA is missing.
- The user does not want to receive any email automatically sent to the ship. Then all replies and weekly update emails are stored in the web site and the user downloads the email on request when the communication costs are acceptable.

ACCESS TO THE DATA STORED IN MBA-STORAGE

To access the ship's storage it is required to know the ship's MBA login. Accessing the ship's storage area is possible in two ways:

- By direct access using Internet Explorer and the following address: http://mds-restore.mds.maris.no/
- By sending an empty email to mds_restore@mds.maris.no and following the instructions given by return

APPLYING DATA DOWNLOADED FROM MBA-STORAGE

When an email has been downloaded from MBA-Storage in the ship's email application proceed as follow:

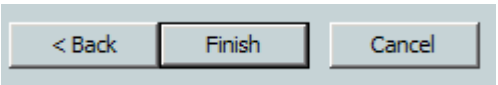
- Copy the attached file onto a memory stick
- If this is a missing file i.e. for example mdsreply2_0202.mds you have to copy both files mdsreply2_0102.mds and mdsreply2_0202.mds in the same folder
- In MBA select the option "Use removable drive"
- Push the button "Apply update"
- Select the received file or one of the file which is part of a reply split in several emails

TROUBLESHOOTING AND ERRORS

EMAIL ERRORS

SMTP ERROR: SENDING REQUEST TO THE SERVER

During the registration process, if after clicking the button Finish



the email setting dialog is displayed again it means that MBA has not been able to send the email because of wrong SMTP set up.

Solution: check with the IT department the proper SMTP set up, make the correction and push again Finish.

RECEIVING EMAIL: EXAMPLE POP3 ERROR

Message is displayed in the button Apply update

Possible reasons of the problem:

- The Pop server is wrong. Check with the IT manager and enter the new settings in the internet account dialog accessible by R/Clicking in the button Check InBox.

- The internet cable is disconnected: Check cabling.
- The wireless network is no more available: set up again the wireless connection.

YOU DID NOT GET AN REPLY TO ONE OF THE REQUEST

In log window locate the request sent to the server R/Click on the line and activate the menu Send again.

HTTPS ERRORS

MBACli might not work if .net 2.0.is not properly installed.

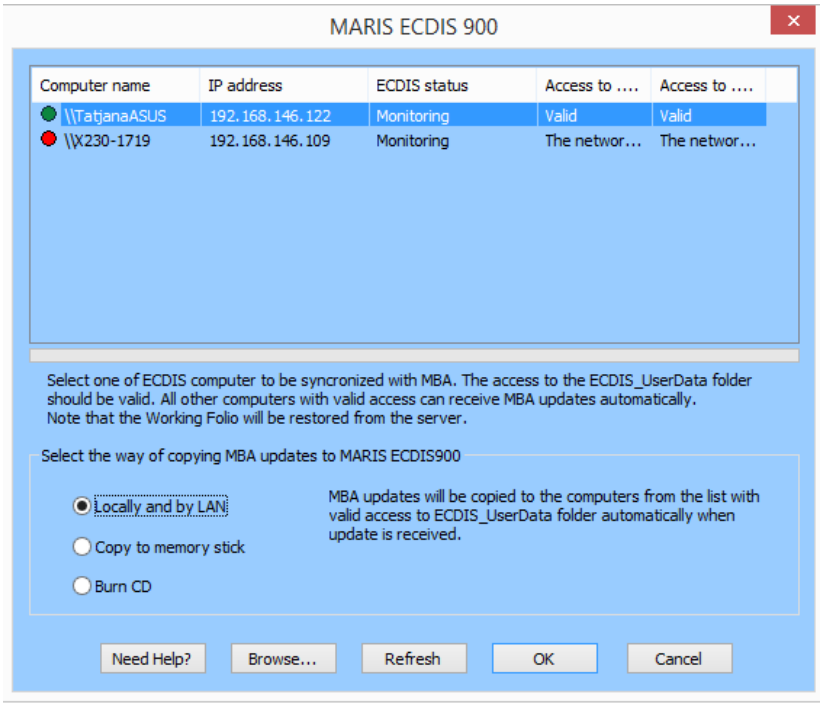
LINK TO ECDIS-SYNCHRONIZATION

When MBA is linked with MARIS ECDIS900, the permits and charts status in MBA are synchronized automatically with the permits and chart used in ECDIS900, MBA gives an exact view of which permits and charts are used in the ECDIS900.

Linked with another ECDIS, the permits and charts status is based on data present in Mariner Data folder which is updated after every updates received.

LINK MBA WITH MARIS ECDIS900

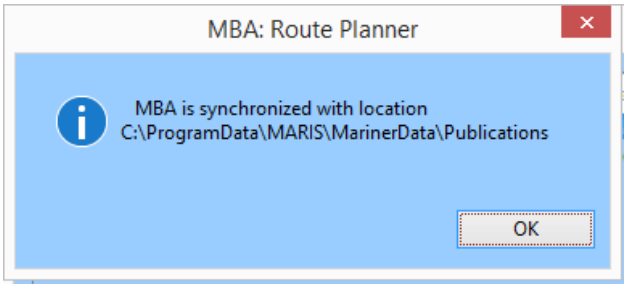
Activate the menu “Settings” and select “ECDIS Link” and “MARIS ECDIS900”


MARIS ECDIS 900
Computer name
IP address
ECDIS status
Access to ....
Access to ....
\\TatjanaASUS
192.168.146.122
Monitoring
Valid
Valid
\\X230-1719
192.168.146.109
Monitoring
The networ...
The networ...
Select one of ECDIS computer to be syncronized with MBA. The access to the ECDIS_UserData folder should be valid. All other computers with valid access can receive MBA updates automatically.
Note that the Working Folio will be restored from the server.
Select the way of copying MBA updates to MARIS ECDIS900
Locally and by LAN
Copy to memory stick
Burn CD
MBA updates will be copied to the computers from the list with valid access to ECDIS_UserData folder automatically when update is received.
Need Help?
Browse...
Refresh
OK
Cancel

Select the ECDIS you want MBA application to be synchronized with and push “OK”.

LINK MBA WITH OTHER ECDIS

Activate the menu “Settings” and select “ECDIS Link” and “Other ECDIS”



CREATE WORKING FOLIO

The MBA Server emails corrections for the Working Folio every week. These corrections are processed by the MBA Manager and must be applied in ECDIS (ENC, AVCS and ARCS). The weekly corrections include the permits for the new editions of charts and the updates for the WF. The corrections may include the new editions of charts.

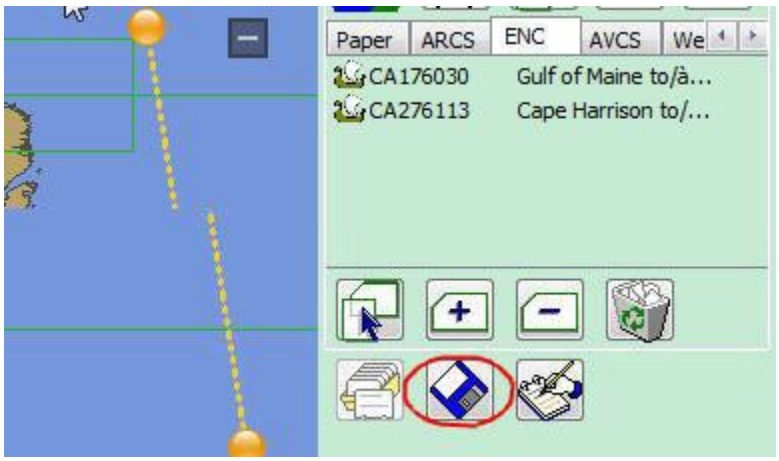
Only last updates released in the week are sent. If an update released before last week was not installed, it might be impossible to apply last update. In this case, Manual update should be used to update the chart.

Only Charts present in the standing folio can be included in Working Folio. The ***Working Folio*** may contain:

- Charts chosen by the navigator for the current voyage, the charts being selected manually from the Standing Folio page (example for ARCS below)

OR

- Charts calculated by the Route Planner : after Charts are processed under a route, and after manual adjustment, the lists of selected charts and publications are transferred as Working Folios for each collection by pressing the button “Save Chart List as WF”



OR

- All charts available on board, when the mode "**Use SF as WF**" is active in the Working Folio page. To be defined for each collection, pressing button Use SF as WF in Working Folio page.

If this mode is active for a collection, previous mode will not affect WF.

IMPORTANT

When the mode is active if a chart is added or removed to the ***Standing Folio*** the chart is automatically added or removed from the ***Working Folio***.

IMPORTANT

When a new edition of a chart belonging to the WF is issued by BA the MBA server sends automatically the new permit on board but MBA server sends the chart **ONLY** if the option "**Send new chart and chart edition**" is active. See Subscription wizard for more details.

SYNCHRONIZATION ECDIS- MBA

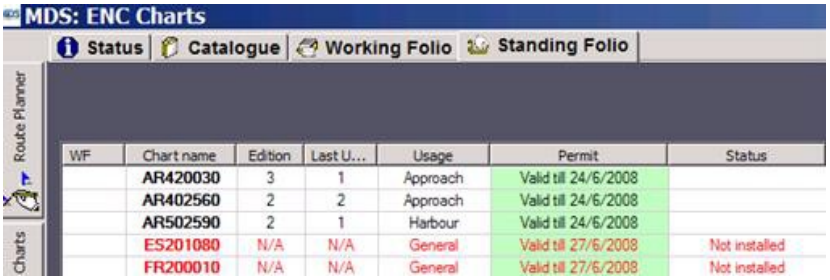
When the Standing Folio is created or when new charts and permits are installed in ***ECDIS*** it is essential to have in MBA an accurate status of all charts and permits used in ***ECDIS***.

Therefore it is IMPERATIVE to synchronize ECDIS and MBA ENC databases for MBA to be able to display the correct status of all ENC charts and permits used in ***ECDIS***.

- When MBA and ECDIS900 are installed on the same PC or on two PCs connected by LAN the synchronization is done automatically.
- When MBA is used with NON MARIS ECDIS(Option Link **Other ECDIS**), the SF must be created from permits stored and updated by MBA folder C:/Mariner Data (default location).

However the status of each ENC must be manually adjusted in MBA according of the ENC status in ECDIS. See Manual synchronization NON MARIS ECDIS with MBA for more details

When the two databases are synchronized, MBA displays the status of all permits and charts installed in ECDIS.



Example with ENC Collection

The charts included in the ***Standing folio*** are the charts with a valid permit. However the chart can be installed or not installed in ECDIS and its status is displayed in the column Status.

A chart not installed in ECDIS can be installed either:

- From ENC, AVCS or ARCS CDs available on board
- Downloaded from MBA server

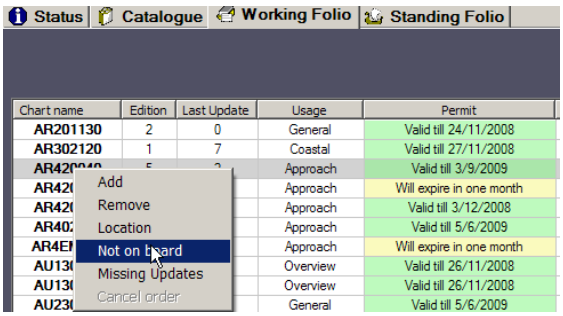
MBA AND ECDIS900 ARE ON THE SAME PC OR CONNECTED BY LAN

When MBA and ECDIS900 are installed on the same PC or on two PCs connected by LAN the synchronization is automatic. As soon as ENC, AVCS or ARCS Update is applied in ECDIS, SF and WF folio page are updated.

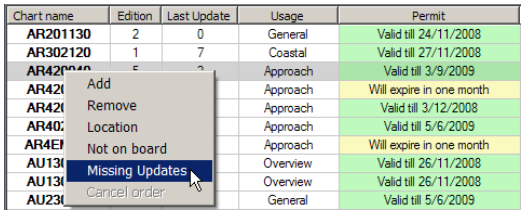
MBA IS USED WITH NON MARIS ECDIS: MANUAL SYNCHRONIZATION

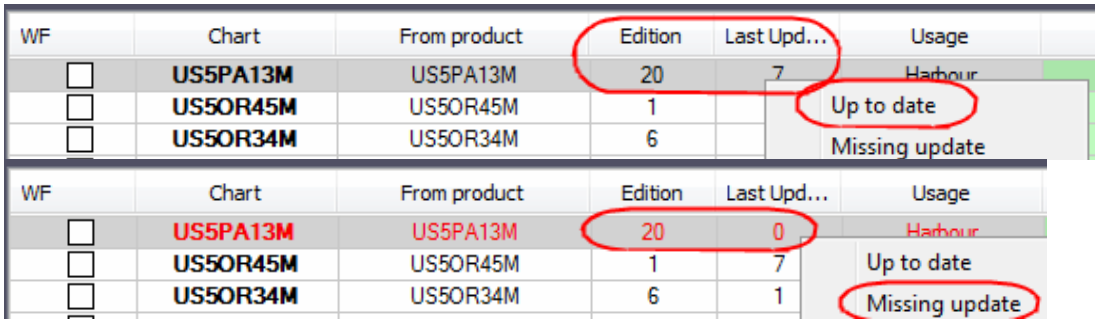
Chart name	Edition	Last Update	Usage	Permit	Status	Order status
AR201130	2	0	General	Valid till 24/11/2008		
AR302120	1	7	Coastal	Valid till 27/11/2008		
AR420040	5	2	Approach	Valid till 3/9/2009		
AR420020	5	2	Approach	Will expire in one month		
AR420010	5	3	Approach	Valid till 3/12/2008		
AR402490	1	1	Approach	Valid till 5/6/2009		
AR4EM042	1	0	Approach	Will expire in one month		

- When one ENC, AVCS or ARCS is not installed in ECDIS it is necessary to indicate manually to MBA that this specific chart is not installed in ECDIS
- R/Click on the chart name in the Working or Standing Folio page and change the status



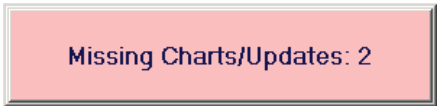
- In the same way one ENC, AVCS or ARCS is not up-to-date in ECDIS it is necessary to indicate manually to MBA that this specific chart is not up-to- date in ECDIS





Missing Update setup Update to "0": All updates will be requested.

- Then the ENC, AVCS or ARCS is added to the list **Missing Charts/Update** in the Status page.



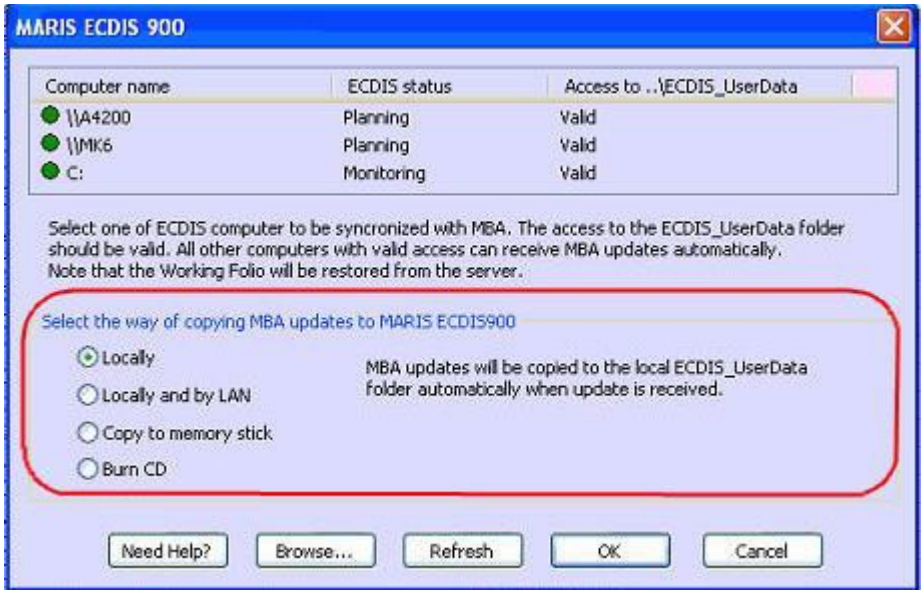
- The Standing and Working folio pages display the status of the ENC, AVCS or ARCS chart.

Chart name	Edition	Last Update	Usage	Permit	Status	Order status
AR201130	2	0	General	Valid till 24/11/2008		
AR302120	1	7	Coastal	Valid till 27/11/2008		
AR420040	5	0	Approach	Valid till 3/9/2009	Update is missing	
AR420020	5	2	Approach	Will expire in one month		
AR420010	0	0	Approach	Valid till 3/12/2008	Not installed	
AR402490	1	1	Approach	Valid till 5/6/2009		
AR4EM042	1	0	Approach	Will expire in one month		

Example with ENC

6.5 APPLY UPDATES IN ECDIS

Options to be defined from dialog by menu "**Settings/ECDIS link**"



For each option is displayed on the right side the mode.

LOCALLY

MBA updates will be copied to the local ECDIS_UserData folder automatically when update is received (see above).

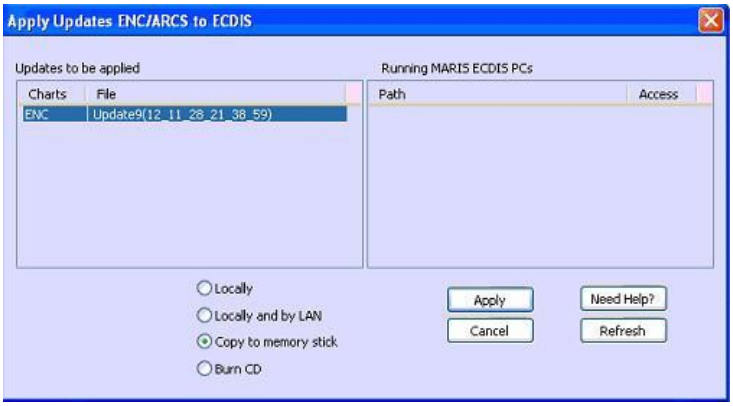
LOCALLY AND BY LAN

MBA updates will be copied to the computers from the list with valid access to ECDIS_UserData folder automatically when update is received.

Select the way of copying MBA updates to MARIS ECDIS900
Locally
Locally and by LAN
Copy to memory stick
Burn CD
MBA updates will be copied to the computers from the list with valid access to ECDIS_UserData folder automatically when update is received.

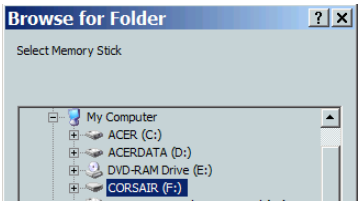
COPY TO MEMORY STICK

The prompt to copy MBA update on memory stick will be displayed when MBA update is received.



The updates received in MBA must be copied to the memory stick and ECDIS900 must be updated from the memory stick as follow:

1. Insert the memory stick in the USB port of the MBA PC
2. Let the option Copy to memory stick
3. Select the memory stick name in the browser and click OK.

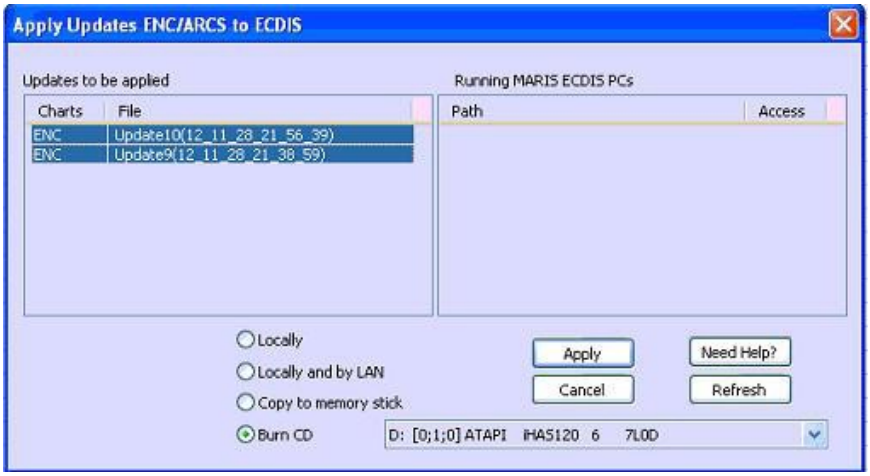


IMPORTANT: the file MUST be copied at the root of the memory stick and not inside a folder of the memory stick

It is possible to delay action with Cancel button. Update is still available in Status page where number of "Update to apply" is increased by 1.

BURN CD

The prompt to burn MBA updates on the CD burner will be displayed when MBA update is received.



Data structure will be copied on the CD

MBA IS USED WITH NON MARIS ECDIS

- The received permits are saved automatically in folder C:/MarinerData\publications\
- For ARCS: subfolder \ARCS Charts\Permits\(MASTER , BACKUP or RESERVEx)
- 2 files in each case: gb.lnc and gb.ncp
- For AVCS: subfolder \AVCS Charts\Permits\(MASTER , BACKUP or RESERVEx)
- For ENC: subfolder \ENC Charts\Permits\(MASTER , BACKUP or RESERVEx)
- If the update includes Chart updates, the dialog "**Apply updates ENC/ARCS to ECDIS**" is displayed allowing to select the way of saving the update data:
    - **Memory stick** will copy the update data on the memory stick with the same data structure than official ENC, AVCS or ARCS update.
    - **Burn CD** will burn the data on a CD with the same data structure than official ENC, AVCS or ARCS update CD.
- The permits must be installed in ECDIS from the folder containing the permits. If several ECDIS are in use on board the proper permits must be installed on the corresponding ECDIS.
- Apply ENC, AVCS or ARCS update in ECDIS(es) from the memory stick or the CD.

IMPORTANT

It is the responsibility of the user to install in ECDIS the received ENC, AVCS or ARCS or apply properly the update.

In order to optimize the communication costs the user MUST install the charts from the Base CDs available on board before requesting to download missing Update, new Edition or new Chart.

PAPER CHART MANAGER

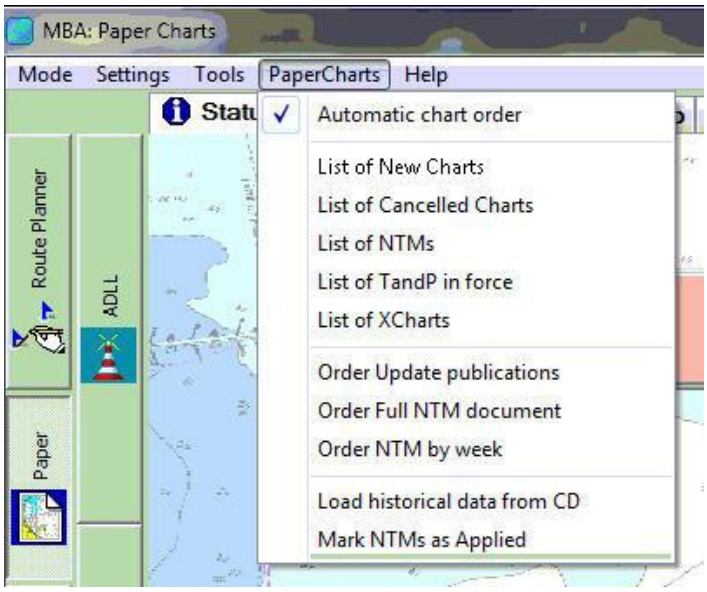
OVERVIEW

The MBA Paper Chart Manager assists the user to manage and correct paper charts. The MBA Server automatically sends the catalogue update, new and cancelled chart lists and relevant chart corrections each week to make sure that the Navigator has the most up-to-date navigation information for his current voyage

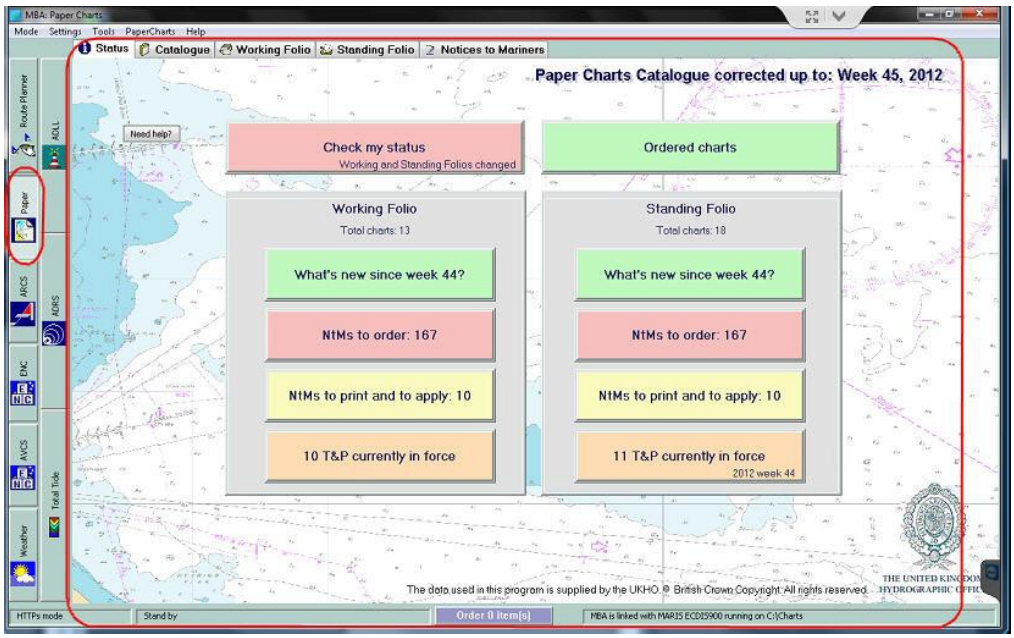
Paper Chart Manager is including features based on advanced Paper chart catalogue from UKHO, making possible:

- Automatic chart order: when active, new edition of charts in SF will be automatically ordered
- List of New charts
- List of Cancelled charts
- List of NTMs
- List of T&P in force
- In addition, in Route Planner, Display of T&P in force displayed on <<the chart with real boundaries surrounding the changes
- List of XCharts
- Full and Update publication management (by week, Folio filter)
- NTM ordering (by week)
- Load Historical Data / Apply NTM after

This information is available by menu under “Paper Charts”



At the same time, using “Paper” tab, the user can define the list of paper charts on board as a his Standing Folio (SF). As for other collection, the list of chart for the current voyage, defined as the working folio (WF) , is maintained updated by “weekly update” function.



Paper Tab for Folio management.

Principle

The MBA paper chart manager software processes the data received from the Server and displays the up-to-date chart catalogue, NtM text, tracings and bitmaps for the navigator to make quick and efficient corrections to his voyage charts.

MBA paper chart manager works as follows:-

- The user loads the software Digital Service onto a PC on the bridge.
- The user then lists all charts in the Standing Folio (SF), i.e. all charts on board.
- The user then lists all charts that he wants to be updated weekly. This second list is called the Working Folio and normally contains a list of all charts to be used on the current voyage. The second list may include any charts from the **Standing folio**.

Every week, the **MBA Server** automatically sends an update email.

The basic update email contains:

- Changes to the paper chart catalogue displayed in the Status page.
- A list of cancelled charts.
- A list of new issue paper charts together with a thumbnail bitmap for each.
- A list of T&P notices in force, or cancelled.
- Official NtM text for each correction plus a tracing and a bitmap showing the changes for each correction.
- A bitmap for each WF correction where significant changes have occurred (large correction).

The weekly update email may also include the following options:-

- A bitmap to accompany each of the above NTM text corrections.
- A tracing to accompany each of the above NTM text correction.
- An update for the paper publications (Chapters 3 to 6 of NTM document in pdf format)
- A Full NTM document in pdf format

The user can send a request to the server at any time:

- To add charts to or subtract charts from the WF list.
- To order missing corrections for some or all of the SF charts.
- To order paper charts
- To order missing Paper Publication update or the full NTM document in PDF format

Updates are sent directly to the ship or via another email address:

- If the MBA Manager is installed on a PC directly connected to the email server on board, the updates are received and processed automatically.
- If not, the updates received by email must be copied to a memory stick and transferred to the PC.

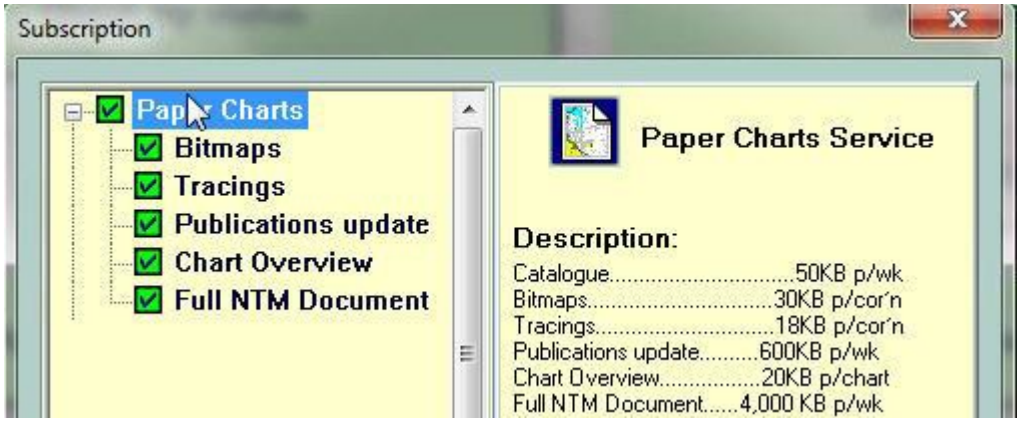
The user corrects paper charts directly from the update information displayed on the Notices to Mariners page of the Chart Manager and signs off each correction as he completes it.

The Report page gives access to utilities to print reports.

After installation the user can copy historical NTM data from MBA CDs containing all UK HO NTM data available from January 2006.

SUBSCRIPTION AND PAPER CHART SERVICES

Selecting menu "settings/Subscription" open Subscription pages including option for Paper chart collection. The user may select from the list shown on the Subscription page, the Paper chart data he wishes to receive from the MBA server every week.



NB. Data transmission costs vary widely with SAT service provider and service chosen. The user should always check with his SAT service supplier the costs involved and choose his most suitable service. The user may also want to limit the volume of data sent to the ship by taking only the most necessary information.

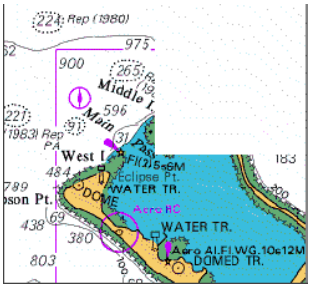
Ticking the Paper Charts box orders the UKHO Catalogue, NTM text and large correction bitmaps to me sent each week. This is the minimum volume of data supplied.

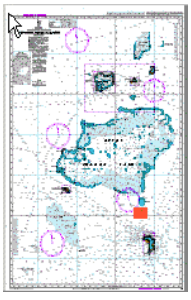
The user may also order five optional sets of information:

- ***Bitmaps*** – one or more bitmaps showing the corrected area(s).
- ***Tracings*** – A tracing of each correction.
- ***Publication update*** - Chapters 3 to 6 of the NTM document in pdf format
- ***Chart Overview*** – A thumbnail chart with the location of the correction shown.
- ***Full NTM document*** – this is full UKHO NTM document including chart corrections and publications updates. ATTENTION: The document is about 4 to 5 MB.

The user must choose the options he needs from the list on the Subscription page by ticking the boxes shown. The average size of datasets is shown on the right hand side of this page.

NB Bitmaps show the completed correction and the user can immediately see what needs to be done to make the correction. This always results in significant time savings and neater corrections on the paper chart.



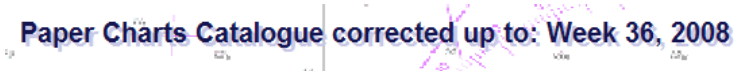


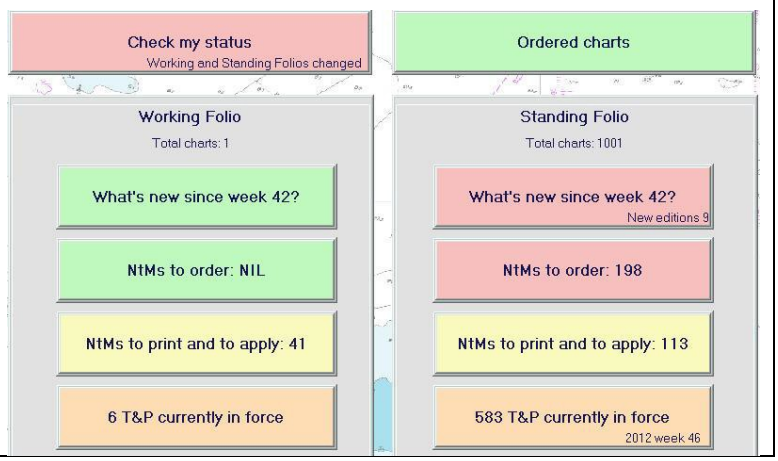
The bitmap shows the corrected part of the chart and the overview shows the location of the correction.

PAPER CHART TAB- STANDING/WORKING FOLIO MANAGEMENT

STATUS PAGE

Select (left click) the ***Tab*** at the top of any page to access the ***Status Page***. This page shows the correction status of the paper chart collection and the date of last update.



Check my Status / Ordered Charts	
New Charts issued last week	
NtMs to order	
NtMs to print and apply	
T&P currently in force	

Check my status
Working and Standing Folios changed
Ordered charts
Working Folio
Total charts: 1
What's new since week 42?
NtMs to order: NIL
NtMs to print and to apply: 41
6 T&P currently in force
Standing Folio
Total charts: 1001
What's new since week 42?
New editions 9
NtMs to order: 198
NtMs to print and to apply: 113
583 T&P currently in force
2012 week 46

REMARK: When the option "Use SF as WF" only one column called Working/Standing Folio is displayed.

Publication Management allows to manage full and Update NTM document on a weekly basis (refer to **Error! Reference source not found.**)

CHECK MY STATUS BUTTON

The button "**Check My Status**" can be:

- Green

when no problems have been detected in MBA.
- Red

when Working Folio or Standing Folio has changed.

Pressing the button "**Check My Status**" sends a request to MBA server to synchronize MBA data on the server and on the client PC including charts catalogues updates.

STATUS BUTTONS

The color and text on each button gives the user an instant indication of the status, whilst pressing the button (left clicking) opens the relevant page.

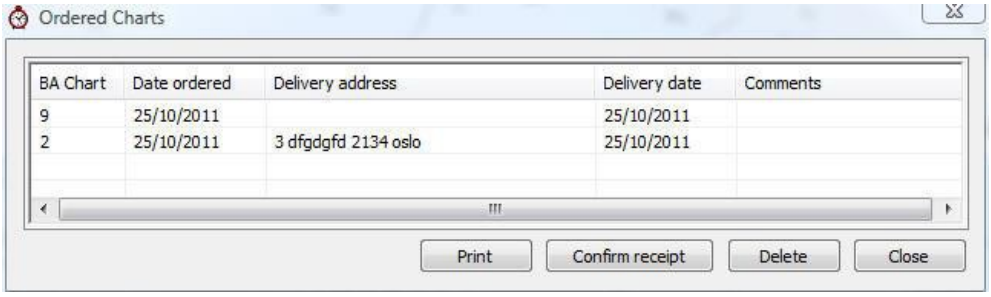
Every week the status of the paper chart folios is updated automatically when the email from the MBA Manager is received. The text and color used on the buttons changes accordingly.

ORDERED STATUS

After Paper Chart order is sent, Status page is refreshed as following

Press button to get information about ordered charts.

- This page displays a cumulative list of Ordered Charts.
- When an ordered chart is received on board the user selects the chart number in the list and presses the Confirm receipt button. The chart is then added to the SF and removed from this list.
- NB. If an ordered chart is not received and the user cancels it by email, he must also remove it from this list by highlighting the chart number and pressing the Delete button.



WHAT'S NEW SINCE WEEK ... ?

For each folio, WF or SF (same button if WF=SF) the button give status for New Charts and Edition, and allow to open review dialog (if RED)

If the **New Charts** button is GREEN, there are no new charts, new editions or re-prints to review and the page will not open.	
If the **New Charts** button is RED, the chart publisher has issued one or more new charts, new editions or re-prints. To review the list, left click the RED button.	

Press red button to open the review dialog:

All new charts can be reviewed at the same time, (button “Reviewed all”)

Or

One by one (button “Next)

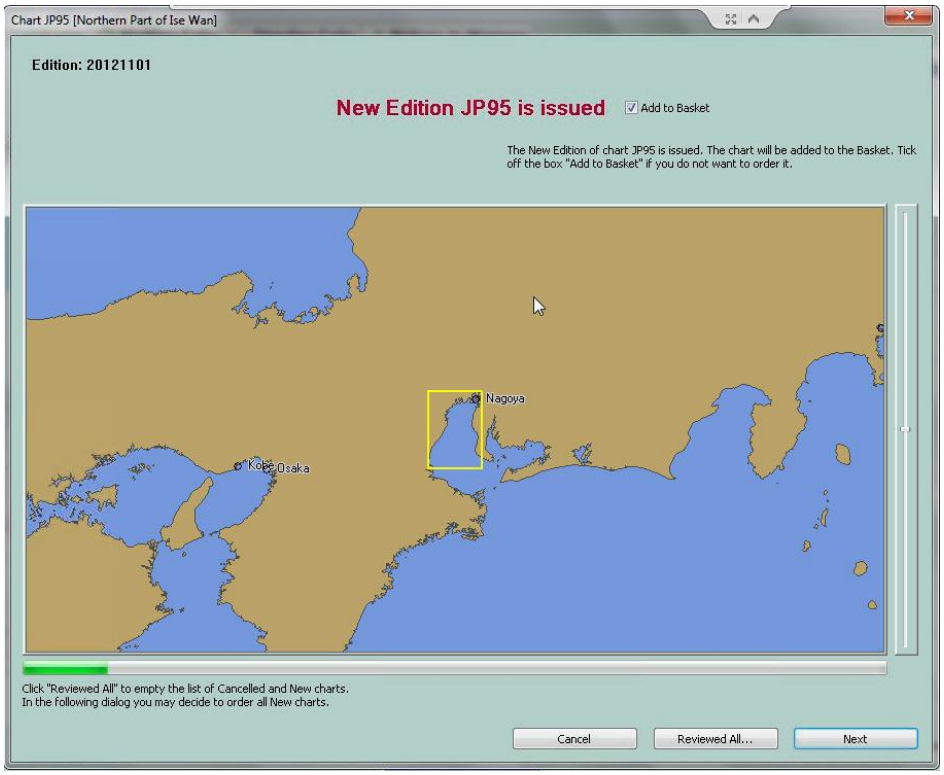
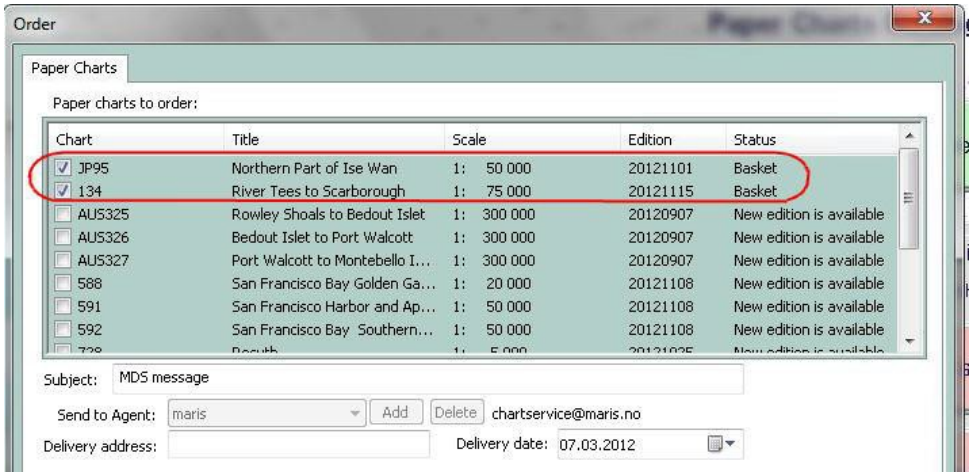


Chart JP95 [Northern Part of Ise Wan]
Edition: 20121101
New Edition JP95 is issued
Add to Basket
The New Edition of chart JP95 is issued. The chart will be added to the Basket. Tick off the box "Add to Basket" if you do not want to order it.
Nagoya
Kobe
Osaka
Click "Reviewed All" to empty the list of Cancelled and New charts.
In the following dialog you may decide to order all New charts.
Cancel
Reviewed All...
Next

When one or more charts is are reviewed, Order Dialog is open with list of reviewed chart preselected.



NTMS TO ORDER

If the ***NtM to order*** button is **GREEN**, there are no NtMs to order for this folio and the page will not open.

NB! The ***Working Folio NtMs to order*** button will normally be **GREEN** because the text for new NtMs is sent together with the ***List of NTMs*** file every week.

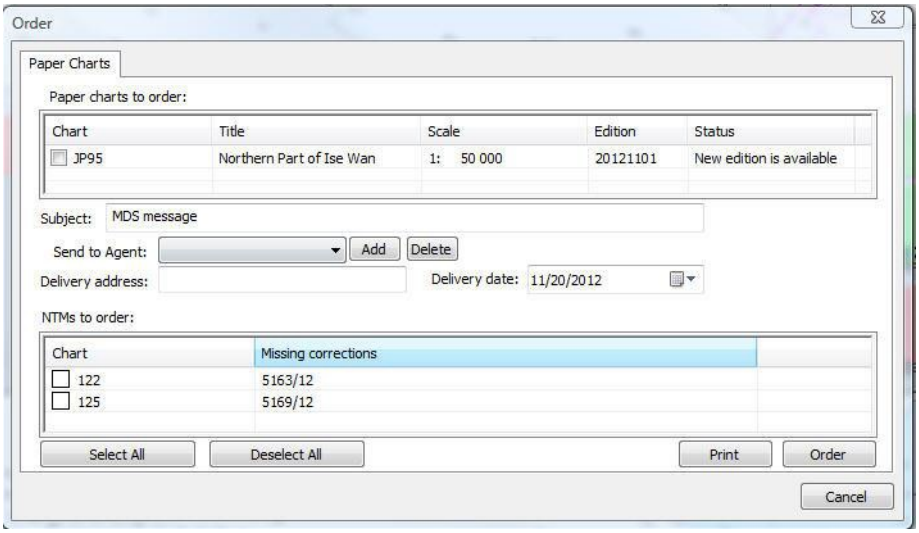
IMPORTANT

MBA server stores all NtM from 01/01/2007.

If the **NtMs** to order button is **RED**, there are NtMs to be ordered for the folio.

NB. The ***NtMs to order*** button for the ***Standing Folio*** will normally be **RED** because these chart updates are sent on demand. The button will only change to **Green** if all the NTMs are ordered manually and received on board.

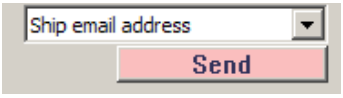
The user can open the ***NtMs to order*** page by pressing (left clicking) the **RED** button to check the list of NtMs and to send an order. Only the ***ticked*** NtMs in the list will be ordered when the ***Send*** button is pressed. Any un- ticked NtMs will remain in the ***NTMs to order*** list.



COMMUNICATION COSTS

BY default MBA server sends back the ordered NTMs to the ship's email address.

However, to reduce satellite communication costs, it is always possible to add or select another return email address from the drop down box on the Order MBA page. To add a new address or select another return email address, press the small down arrow in the bottom right corner of the Order MBA page.



To minimize Satellite data download costs, the ship strategy could be:

- The navigator receives weekly update for the Working Folio using satellite communication.
- When approaching port, the navigator presses the SF NTMs to order button and inserts the email address of the agent for the reply.
- The ship's agent receives the reply, copies the MBA attachment onto a memory stick and delivers this to the ship on arrival.
- The navigator applies the update manually from memory stick.

NB! An alternative to the option above is to request the MBA server to send SF NTMs to MBA-storage (choose this option from the drop down box mentioned above).When communications are cheaper (GSM or WIFI) it is possible to collect the data stored in MBA-Storage by sending an empty email to the address MBA-restore@MBA.maris.no. When the reply is received follow the instructions given in the email.

CHART AGENT

To select the chart agent, press the small arrow next to the box “Sent to chart agent” and select the agent.

NEW CHART AGENT

To add a new chart agent in the list of agents accessible using the pop up menu push the button Add and enter all information related to the agent.

NB! To place an order on the Order MBA page, check that the list contains the charts required, choose the chart agent (in the ***Send to Chart agent*** box), add the ***Delivery address*** and ***Delivery date*** in the adjacent boxes and press the Send button. The email is sent (or transferred to a memory stick).

NB! New editions of charts in the Working Folio are automatically added to the final list of charts ordered.

RECEPTION ON BOARD OF THE PAPER CHART

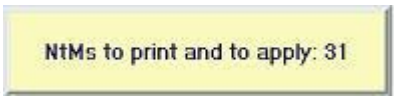
When the order is sent the status of the To order charts on the Catalogue page changes to "**Clock**" symbol.

A received chart may be confirmed as “on board” by R/ clicking the chart row on the Catalogue page and L/clicking the text “Received” from the drop down box, or from Report Page “**Ordered Charts.**

The chart is then added to the ***SF***.

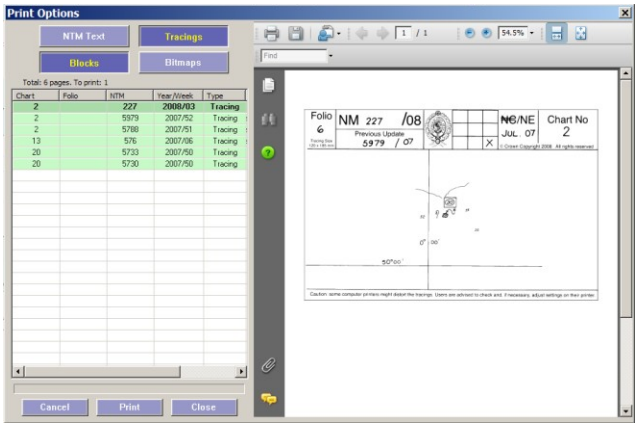
NTMS TO PRINT AND APPLY

The **NtMs to print and to apply** button is **YELLOW** when there are NtMs to print or apply. The number of NtMs to apply is also shown in text on the button:

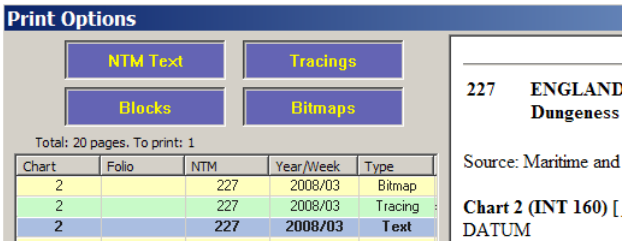


The **NtMs to Print and Apply** button is **GREEN** when there are no NtMs to print or apply.

Pressing (L/clicking) the **YELLOW** button opens the **NtMs to print** page:



By default, Tracings and Blocks are selected for printing. To select other options toggle the dedicated buttons in the top left corner of this page.

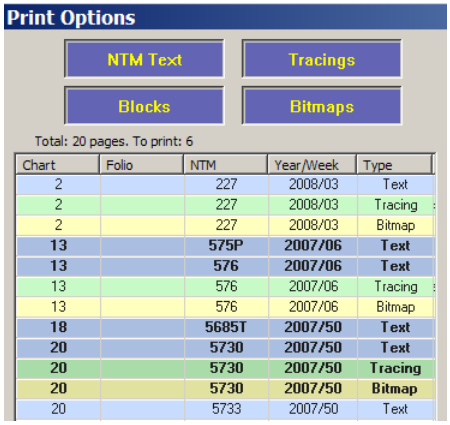


MBA displays a list of all selected **text, blocks, tracings or bitmaps** chosen by toggling ON the buttons in the top left corner of the page. By highlighting a line in the list, the user can review the data in the adjacent box.

A single line may be printed by highlighting it and pressing the Print button at the bottom of this page.

The Shift or Ctrl keys may be used to highlight and print groups of lines. The mouse can also be used to highlight groups of lines.

NB. it is possible to sort lines by Chart number, Folio, NTM, Year/Week or Type by clicking on the column header.



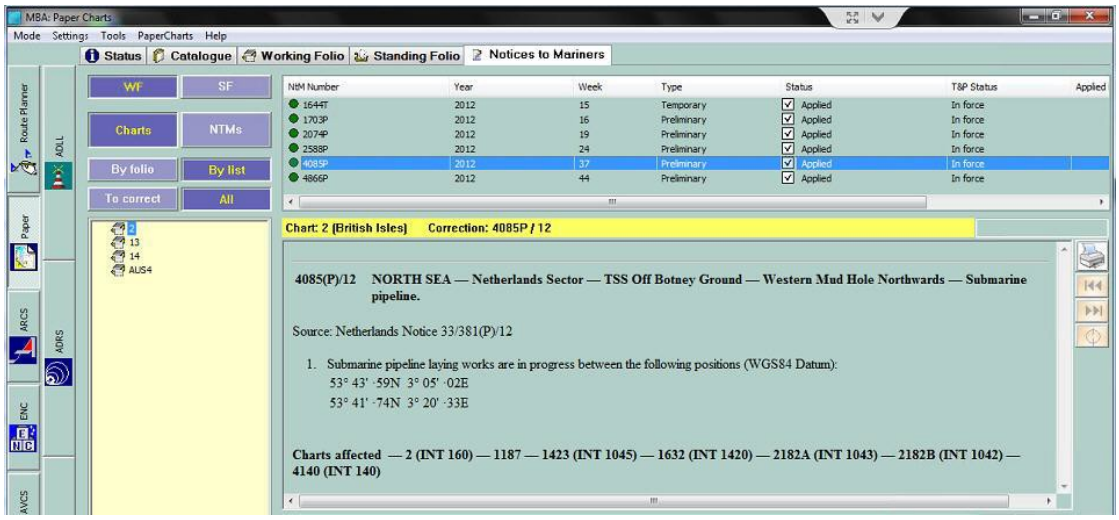
NTM sorted by NTM name, 13 an18 and 20 will be printed out

T&P CURRENTLY IN FORCE

The ***T&P currently in force*** button is always yellow and the text shows the number of T&P notices that affect charts in the relevant folio.

Pressing the T&P button opens the ***Notices to Mariners*** page with the list of T&P Notices in the column on the left hand side. Left clicking a T or P notice brings up the correction text and a list of charts that it affects.

On the top right frame, list of Charts AND affected by the T&P AND belonging to the SF are listed.

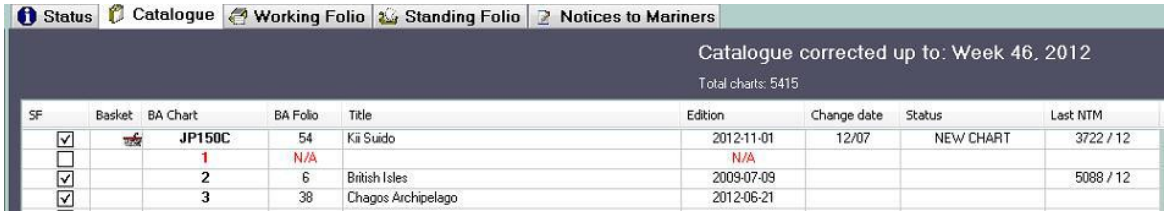

MBA: Paper Charts
Mode Settings Tools PaperCharts Help
Status Catalogue Working Folio Standing Folio Notices to Mariners
WF SF
Charts NTMs
By folio By list
To correct All
NtM Number Year Week Type Status T&P Status Applied
1644T 2012 15 Temporary Applied In force
1703P 2012 16 Preliminary Applied In force
2074P 2012 19 Preliminary Applied In force
2588P 2012 24 Preliminary Applied In force
4085P 2012 37 Preliminary Applied In force
4866P 2012 44 Preliminary Applied In force
Chart: 2 (British Isles) Correction: 4085P / 12
4085(P)/12 NORTH SEA — Netherlands Sector — TSS Off Botney Ground — Western Mud Hole Northwards — Submarine pipeline.
Source: Netherlands Notice 33/381(P)/12
1. Submarine pipeline laying works are in progress between the following positions (WGS84 Datum):
53° 43' ·59N 3° 05' ·02E
53° 41' ·74N 3° 20' ·33E
Charts affected — 2 (INT 160) — 1187 — 1423 (INT 1045) — 1632 (INT 1420) — 2182A (INT 1043) — 2182B (INT 1042) — 4140 (INT 140)

Example: Chart 2 in WF and affected by Preliminary Notice 4085(P)

7.3.1 CATALOGUE PAGE

The Catalogue page displays an up-to-date spreadsheet of UKHO paper charts. The date of the last update is displayed at the top of the page.

DISPLAY



Within the spreadsheet the user may:

Sort the spreadsheet content by l/clicking on the column headings.

Add to basket a chart or acknowledge reception by R/clicking chart number and select "**Received**", or from Report Page "**Ordered Charts**"

Add or **remove** a chart from the **Standing Folio** by simple clicking in the first column.

Check the location of the chart by R/clicking the chart number.

A row shown in Red indicates that the chart is no longer available.

A single L/click on any chart (row) opens a list of all NtMs that apply to that chart at the bottom of the page.

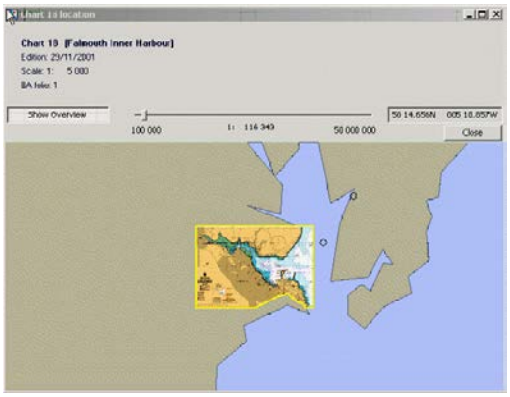
To add a chart to the Standing Folio, double l/click the chart number in the SF column. To remove a chart from the SF, l/click the tick in the SF column.

LOCATION

R/click on any selected row on the Catalogue page

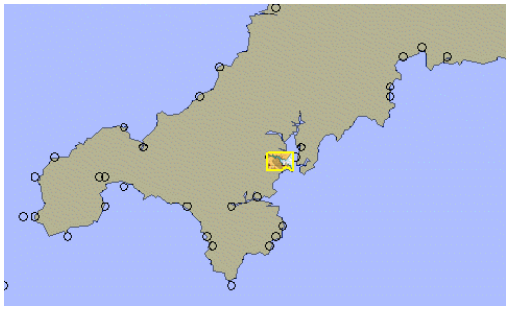
to open a small pop-up box that allows the user to locate and/or order a chart and/or acknowledge the reception of the paper chart on board.

L/click the word ***Location*** (in the dialog box) to display an overview of the chosen chart superimposed on a world map



NB! Some paper charts have no overview (UKHO charts displaying Japanese waters for example). In this case, only the chart outline is displayed.

Zoom in and out by using the middle wheel of the mouse or the horizontal slider above the chart.



ORDERING PAPER CHARTS FROM THE CATALOGUE

R/click on row corresponding to the chart required and select ***Add to basket*** (in the pop-up dialog box) to add a chart to basket.

This action places the chart on the ***Paper Charts to order*** frame on the ***Order*** page and changes its status to "Basket" symbol in column "Basket".

NB! To remove an ordered chart in the Catalogue page, R/click the row for the chart and select ***Remove from basket*** in the pop-up dialog box.

STANDING FOLIO (SF) PAGE

GENERAL

The Standing Folio is a list of all charts on board. Some of these charts will be in use during the current voyage (Working Folio), some may be useful for future voyages and some are obsolescent or obsolete.

The ***Standing Folio*** (SF) is built once when the MBA application is set up and is only adjusted when charts are cancelled or new charts received on board.

It is possible to add a chart to the Standing folio by simple L/clicking on the selected row in the Catalogue page but it is recommended to add the chart (s) using the dialog "Add the Chart(s)".

Every week, the MBA Server automatically sends corrections for the

Working Folio i.e. for a nominated group of charts.

The MBA Server does not send weekly corrections for SF charts - to save email by satellite communication costs. The user requests updates for the SF charts by pressing the RED NTMs to order button in the Status page and then Send on the Order MBA page.

NB! The user may order as many of the SF charts as he needs by ticking/un- ticking the boxes on the NTM to order page. (Order MBA page - NTM to order tab).

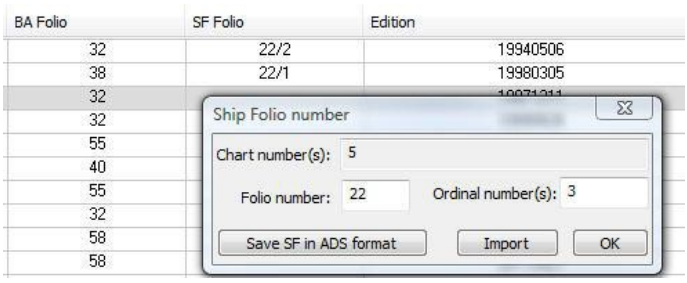
The user can send a request for all the outstanding SF corrections whenever he has local access to the internet (perhaps from the port office) or via a WIMAX connection to the internet. Once received on board, the SF corrections sit on the MBA manager until the user has time to apply them.

The ***Standing Folio*** page is displayed as a spreadsheet and may be used to build manually the Working Folio.

BA and ship chart numbering

Each BA chart is issued with a Name, a Number and a BA folio number. On many ships the Navigator adds a unique Folio and Consecutive number to each chart for easy reference onboard.

The navigator can add a folio and consecutive number to a ***Standing Folio*** chart by double clicking in the column SF Folio.



DISPLAY

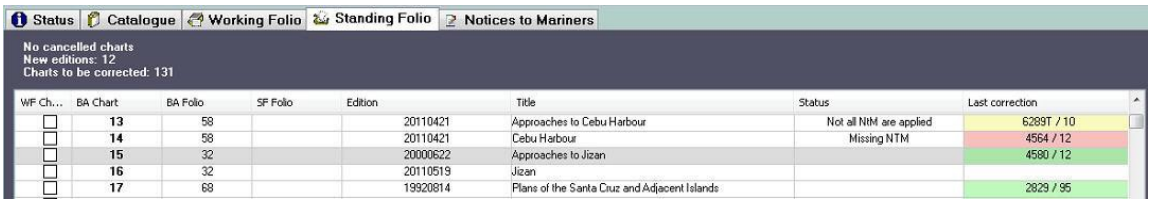
Within the Standing Folio (SF) spreadsheet the user may:-

- Sort the spreadsheet content by L/clicking a ***Column heading***. Add a chart to the Standing folio or remove it.

- Add a chart to the Working folio or remove a chart from the Working Folio.
- Check the location of a chart by R/clicking the chart row and selecting "Location" in the text box.
- Check the correction status of each chart by looking at the background colour in the "Last Correction" column. Where the background color is:
    - White: NTM data NOT present and marked as “Applied”; Green: NTM data present and applied;
    - Yellow:NTM data present and NOT applied;
    - Red: NTM data absent; To be ordered if necesssary

NB. The ***text*** in this column shows the last correction received and the week it was issued.

NB. The ***text*** in the "Status" column describes the status of the chart.


Status
Catalogue
Working Folio
Standing Folio
Notices to Mariners
No cancelled charts
New editions: 12
Charts to be corrected: 131
WF Ch...
BA Chart
BA Folio
SF Folio
Edition
Title
Status
Last correction
13 58 20110421 Approaches to Cebu Harbour Not all NtM are applied 6289T / 10
14 58 20110421 Cebu Harbour Missing NTM 4564 / 12
15 32 20000622 Approaches to Jizan 4580 / 12
16 32 20110519 Jizan
17 68 19920814 Plans of the Santa Cruz and Adjacent Islands 2829 / 95

The user can display the numbers of all NTMs issued for this chart by selecting (l/clicking) a chart row.

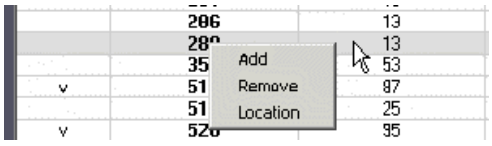
The list will appear across the bottom of the page. The colour of each correction number indicates its individual status (as above). A white number indicates that the correction is logged as ***Completed***.

NB. All corrections issued before the MBA Chart Manager was installed are also marked as ***Completed.***

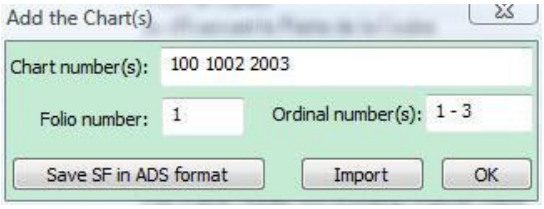
Remark: Cancelled charts are automatically removed (and/or replaced by the new) in the Standing Folio (See the Cancelled and New Charts sections).

ADDING CHARTS TO THE SF

To add a single chart to the SF, the user must R/click anywhere in this Standing Folio page and select (L/click) ***Add*** from the pop-up list. The chart number, folio number and ordinal number may be inserted in the ***(Add the Charts)*** dialog box.



To add several charts at one time, the user must insert the chart numbers (separated by a space) in the ***Chart number(s)*** field in this dialog box.



The charts 100,1002 and 2003 are added to SF Folio 1 with the Ordinal numbers 1,2 and 3

REMOVING CHARTS FROM THE SF

To remove a chart from the Standing Folio, R/click on the chart row to highlight the chart and display the pop-up text box and then select (L/click) Remove.

NB. To remove ALL charts from the SF, press the button Ctrl + Shift + Del.

WORKING FOLIO (WF) PAGE

GENERAL

The Working Folio (WF) page is displayed as a spreadsheet. Within the spreadsheet the user may:

Sort the spreadsheet content by L/clicking a ***Column heading***.

- Check the location of a chart by R/clicking the chart row and selecting "Location" in the text box.
- Check the correction status of each chart by looking at the background colour in the "Last Correction" column. Where the background color is:
  - White: NTM data NOT present and marked as “Applied”;
  - Green: NTM data present and applied;
  - Yellow:NTM data present and NOT applied;
  - Red: NTM data absent; To be ordered if necessary.

NB. The ***text*** in the "Last Correction" column shows the last correction received and the week it was issued.

NB. The ***text*** in the "Status" column describes the status of the chart.

LIST OF NTMS APPLYING TO A SELECTED CHART

The user can display a list of all NTMs issued for each chart by selecting (L/clicking) a chart row. The list will appear at the bottom of the page. The color of each correction number indicates its individual status (as above). A white number indicates that the correction is logged as ***completed***.

MODE "USE SF AS WF"

When the mode "Use SF as WF" is active

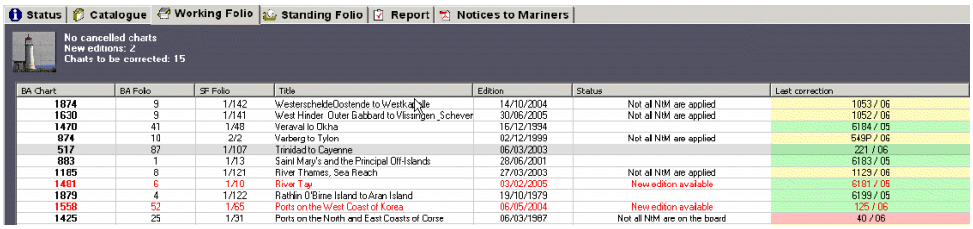
all charts of the Standing Folio are added to the Working Folio.

IMPORTANT

When the mode is active if a chart is added or removed to the ***Standing Folio*** the chart is automatically added or removed from the ***Working Folio***.

The MBA Server emails corrections for the Working Folio every week. These corrections are processed by the MBA Paper Chart Manager and placed in a folder called MarinerData.

The number of corrections that need to be applied is shown on the Status page under the button named "NTMs to Apply". The correction text and tracing or bitmap is shown on the NTM page or on the Print Option page.



BA Chart	BA Folio	SF Folio	Title	Edition	Status	Last correction
1874	9	1/142	WesterscheldeOostende to Westkapelle	14/10/2004	Not all NtM are applied	1053 / 06
1630	9	1/141	West Hinder Outer Gabbard to Vlissingen_Scheveningen	30/06/2005	Not all NtM are applied	1052 / 06
1470	41	1/48	Veraval to Okha	16/12/1994		6184 / 05
874	10	2/2	Varberg to Tylon	02/12/1999	Not all NtM are applied	549P / 06
517	87	1/107	Trinidad to Cayenne	06/03/2003		221 / 06
883	1	1/13	Saint Mary's and the Principal Off-Islands	28/06/2001		6183 / 05
1185	8	1/121	River Thames, Sea Reach	27/03/2003	Not all NtM are applied	1129 / 06
1481	6	1/10	River Tay	03/02/2005	New edition available	6191 / 05
1879	4	1/122	Rathlin O'Birne Island to Aran Island	19/10/1979		6199 / 05
1558	52	1/65	Ports on the West Coast of Korea	06/05/2004	New edition available	125 / 06
1425	25	1/31	Ports on the North and East Coasts of Corse	06/03/1997	Not all NtM are on the board	40 / 06

Red text (in a row) indicates that the chart has been cancelled or re-issued under a different number.

The Working Folio (WF) page is displayed as a spreadsheet. Within the spreadsheet the user may:

- Sort the spreadsheet content by L/clicking a ***Column heading***. Check the correction status of each chart
- Check the location of a chart by R/clicking and selecting Location.

The background color of each row in the ***Last correction column*** shows the correction status for that chart. The text shows the last correction received and the week it was issued.

- Green: All NtMs on board have been applied.
- Yellow: Some NtMs on board must be applied.
- Red: Some NtMs are not on board and ***MUST*** be ordered.

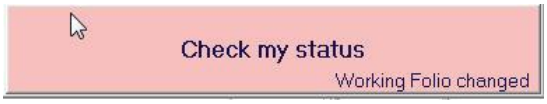
The user can display a list of all NTMs issued for each chart by selecting (l/clicking) a chart row. The list will appear at the bottom of the page. The color of each correction number indicates its individual status (as above). A white number indicates that the correction is logged as ***completed***.

ADDING AND REMOVING CHARTS TO THE WORKING FOLIO

There are two ways to add charts to or remove charts from the WF:

- Manually, by inserting or removing a tick (Simple L/clicking) in the ***WF*** column next to the chart number on the ***Standing Folio*** page.
- Graphically from the ***Route Planner*** (see Route Planner)

NB. Whenever the **WF** is modified, the "**Check My Status**" button located in the Status page turns red and a text message is displayed. Pressing the "Check my Status" button sends an update email to the MBA Server (or places an email on the memory stick).



The MBA Server records the changes to the WF and sends back the latest updates for any added charts. The weekly updates thereafter will apply to the new WF chart list.

The MBA Server will note the changes to the WF and send back the latest updates for any added charts. The weekly updates thereafter will apply to the new WF chart list.

NOTICES TO MARINERS PAGE

GENERAL

The ***Notices to Mariners*** page is used by the Mariner to directly correct paper charts. If a laptop or LCD is positioned close to the paper chart, the user can correct the chart directly from the display.

The ***Notices to Mariners*** page is split into six panels:

- Left top panel: A set of buttons to configure output.
- Left panel: A list of charts to update or NtMs to apply.
- Top panel: A list of NtMs or Charts depending on the selected presentation.
- Centre panel: The official NTM text for the correction.
- Bottom right panel: A chart overview with the location of the correction highlighted.
- Bottom panel A bitmap showing the corrected section of chart.

NB. L/click the word ***Tracing, Block, or Cautionary note*** in blue at the bottom left of the text box to open the relevant information.

Within the ***Notices to Mariners*** page the user may:

- Customize the presentation of the NTM page by pressing different buttons in the top left corner. To make weekly corrections to the Working Folio, the user should press the WF; Charts; By list; and To correct buttons. A list of WF charts to correct will be shown in a column on the left of the display.

Make and log a correction for a selected chart or NtM.

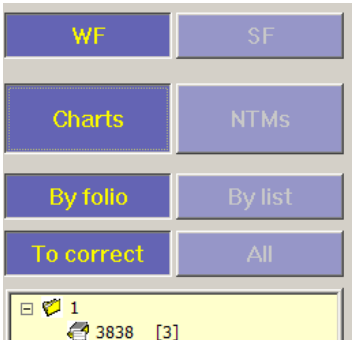
Print an NTM to correct using the button at the right of the centre panel.

Display one or more bitmaps related to the correction by clicking

Order missing NtMs for a chart or week by R/clicking the NTM, or Chart number in the Left panel.

DISPLAY

When selected only charts and NtM related to Working folio are selected and displayed	When selected all charts and NtM related to Standing folio are selected and displayed
When selected the information is sorted and presented by chart number	When selected the information is sorted and presented by NtM number



When selected the information is sorted by folio number for the charts and areas when ***Show Only T&P in force*** is selected.

Button inactive when NtM

When selected only charts or NtM to be corrected are selected and displayed

When selected the information is sorted by numbers for the charts and NtMs when ***Show Only T&P in force*** is selected Button inactive when NtM is selected

When selected all charts or NtMs are displayed

MAKING CORRECTIONS AND LOGGING COMPLETION

The user will review the Text, Bitmap and Overview displayed on the NTM page when manually correcting a paper chart. He may also Print the Bitmap and/or Tracing.

When a chart correction has been completed, the user must double L/click the check box Not Applied in the Status column (in the top panel). This action logs the correction as completed and changes the check box wording to Applied.

When all NtMs have been applied the colour of the NtM's to Apply button on the Status page changes to Green and the text to NIL.

NB. When the "To Correct" button is pressed, as soon as all charts or NTMs to correct have been completed the Left panel will be empty.

HANDLING TRACINGS AND BITMAPS

Tracing

L/click the word Tracing (in blue) at the bottom the NtM panel to launch Adobe Reader and open a page showing the correction. The Tracing may also be printed from this window.

Bitmap

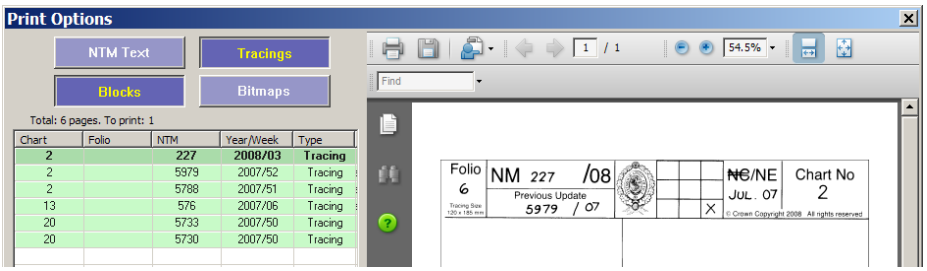
A bitmap showing the completed correction can be viewed during the chart correction process and printed at chart scale. When more than one bitmap is linked to an NtM, the button on the right of the text box is used (L/click) to display to the next one.

NB. In the Overview window the location of the bitmap is highlighted in Orange.

NB. Bitmaps are not issued for T&P notices or for corrections in some coastal waters where government permission has been withheld (e.g. Charts covering Japanese waters).

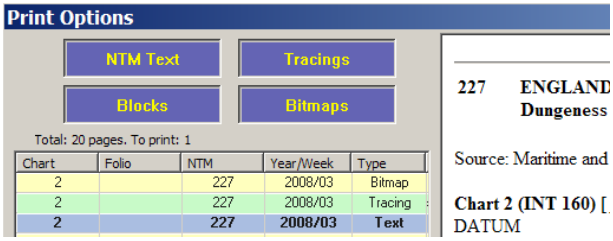
PRINT NTMS TO APPLY

Pressing the **Yellow** button ***NtMs to Print and Apply*** on the **Status** page opens the **Print Options** page and displays all WF or SF NTMs to apply.



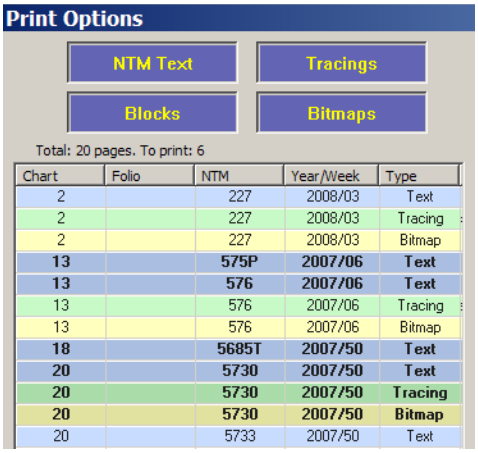
Pressing the printer icon button in the centre panel on the "**Notice to Mariners**" page opens the **Print Options** page and displays the selected NTM to print.

NB. The Tracing and Block are selected for printing by default on Print Options page. To select the bmp or text, press the relevant buttons in the top left corner of the Print Options page.



On the Print Option page, all NTMs to apply are displayed in the left panel. Only highlighted lines will be printed when the Print button is pressed. Select more than one line by using the Shift or Ctrl keys or by dragging the mouse down over the lines.

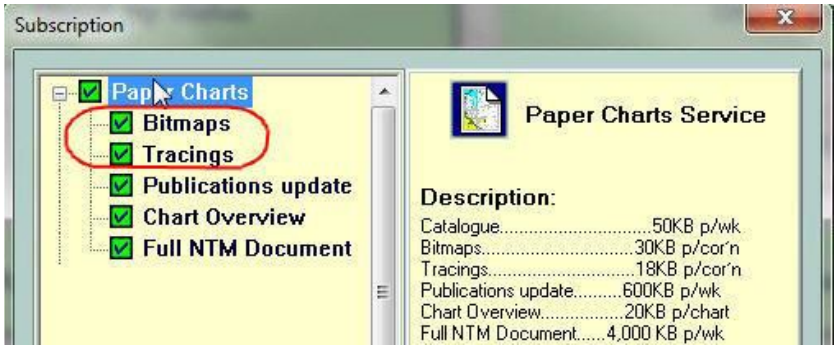
NB. It is possible to sort the lines by Chart number, Folio number, NTM number, Year/Week or Type by clicking on the column header (Chart, Folio etc..)



NTM sorted by NTM name, 13 an18 and 20 will be printed out

WEEKLY UPDATE

List of NTM is received by weekly update, and in addition, based on subscription options, corrections (Bitmaps, Tracings) for Charts present in the Working Folio.

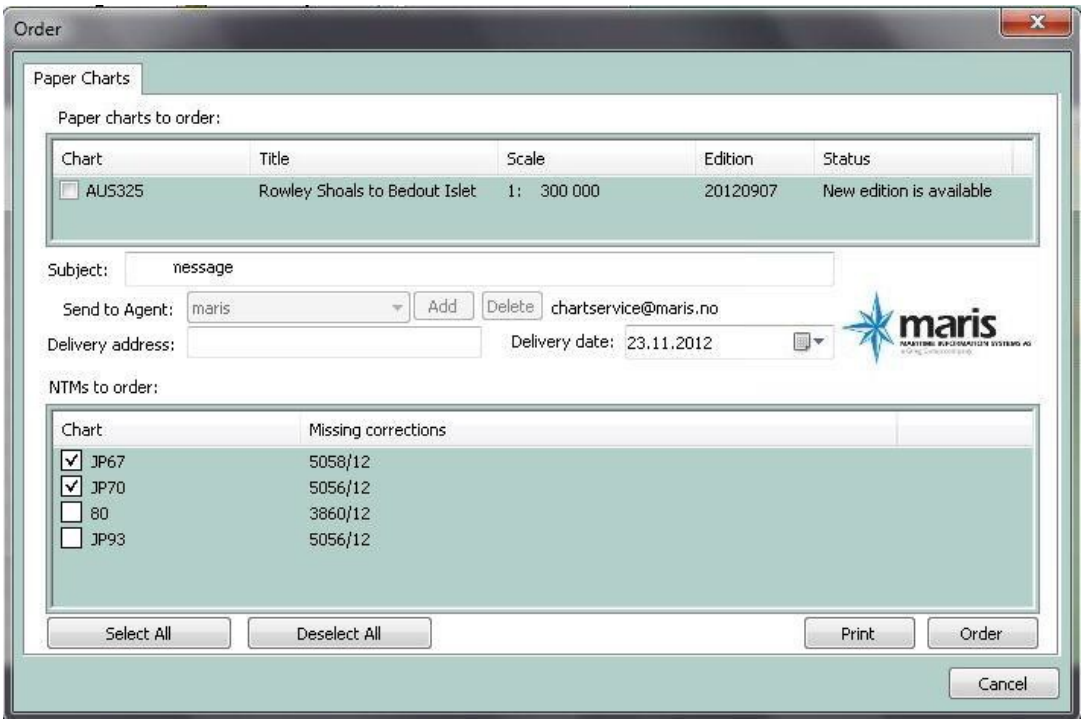


REQUEST MISSING NTMS

In the bottom of "Paper" page, "Order" button allows to open dialog in order to send request to order missing NTM and order Charts.

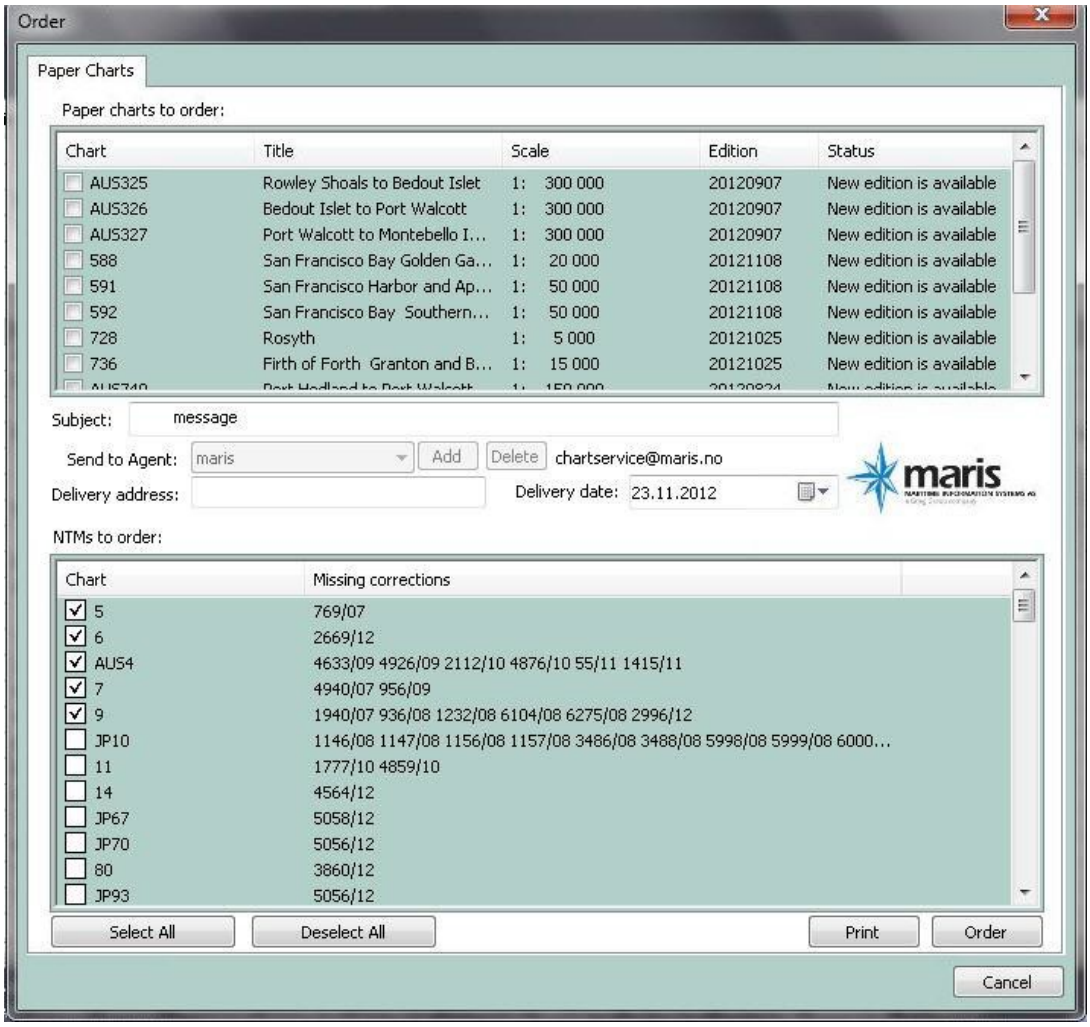
When "order button is pressed in Status, Catalogue, or Working Folio page :

the Dialog will open with list of missing Charts in the top frame (New edition available) and NTMs for the **Working** Folio(bottom frame).



Check box for desired Charts and NTM and send request.

When "order button is pressed in Status, Catalogue, or Working Folio page : the same Dialog is open for the **Standing** Folio.


Order
Paper Charts
Paper charts to order:
Chart
Title
Scale
Edition
Status
AUS325 Rowley Shoals to Bedout Islet 1: 300 000 20120907 New edition is available
AUS326 Bedout Islet to Port Walcott 1: 300 000 20120907 New edition is available
AUS327 Port Walcott to Montebello I... 1: 300 000 20120907 New edition is available
588 San Francisco Bay Golden Ga... 1: 20 000 20121108 New edition is available
591 San Francisco Harbor and Ap... 1: 50 000 20121108 New edition is available
592 San Francisco Bay Southern... 1: 50 000 20121108 New edition is available
728 Rosyth 1: 5 000 20121025 New edition is available
736 Firth of Forth Granton and B... 1: 15 000 20121025 New edition is available
Subject: message
Send to Agent: maris Add Delete chartservice@maris.no
Delivery address:
Delivery date: 23.11.2012
maris
NTMs to order:
Chart
Missing corrections
5 769/07
6 2669/12
AUS4 4633/09 4926/09 2112/10 4876/10 55/11 1415/11
7 4940/07 956/09
9 1940/07 936/08 1232/08 6104/08 6275/08 2996/12
JP10 1146/08 1147/08 1156/08 1157/08 3486/08 3488/08 5998/08 5999/08 6000...
11 1777/10 4859/10
14 4564/12
JP67 5058/12
JP70 5056/12
80 3860/12
JP93 5056/12
Select All
Deselect All
Print
Order
Cancel

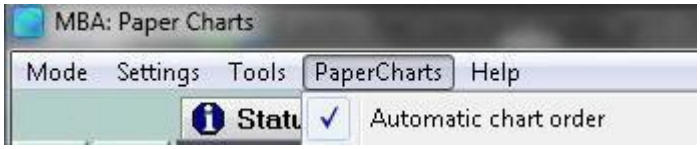
Check box for desired Charts and NTMs and send request.

In addition, the user may request any NTM data issued after the 01/01/2006 from the server. It can be ordered by week: refer to paragraph “Order NTM by week” .

PAPER CHARTS MENU

AUTOMATIC CHART ORDER

When this opton is activated, all new editions of paper charts are automatically ordered, after Paper catalog is updated during weekly update is process.



Status Page is showing following information:

Ordered Charts is red after order. Press button to get list of ordered charts.

"What 's new" is Green. No order action is required.

Number of ordered charts is displayed.

NEW CHARTS REPORT

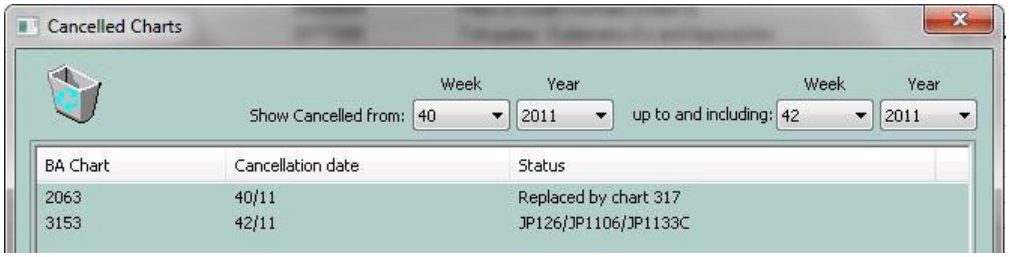
This page stores a cumulative list of charts. The user is able to view a list of all paper charts issued between two specified dates.

New Charts
Week
Year
Show NEW CHARTS from: 46 2012
Week
Year
up to and including: 46 2012
Chart WF SF Publ. Data Title Edition Scale Folio
134 v v River Tees to Scarborough 20121115 1: 75 000 7
152 v River Tyne to River Tees 20121115 1: 75 000 7
1205 Oristano and Approaches 20121115 1: 40 000 25
1213 Bonifacio Strait 20121115 1: 51 561 25

List of new charts issued in week 46 2012

CANCELLED CHARTS REPORT

This page stores a cumulative list of charts. The user is able to view a list of all paper charts cancelled between two specified dates.

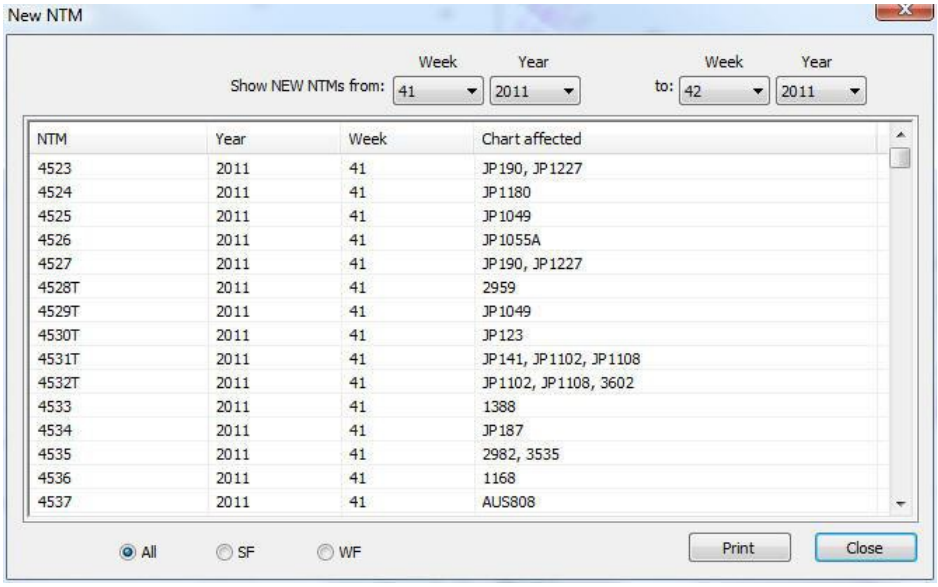


List of cancelled charts cancelled in week 40, 41 and 42 2011

LIST OF NTM

This page stores a cumulative list of New NTM. The user is able to view a list of all NTMs issued between two specified dates, and display it using filtering function:

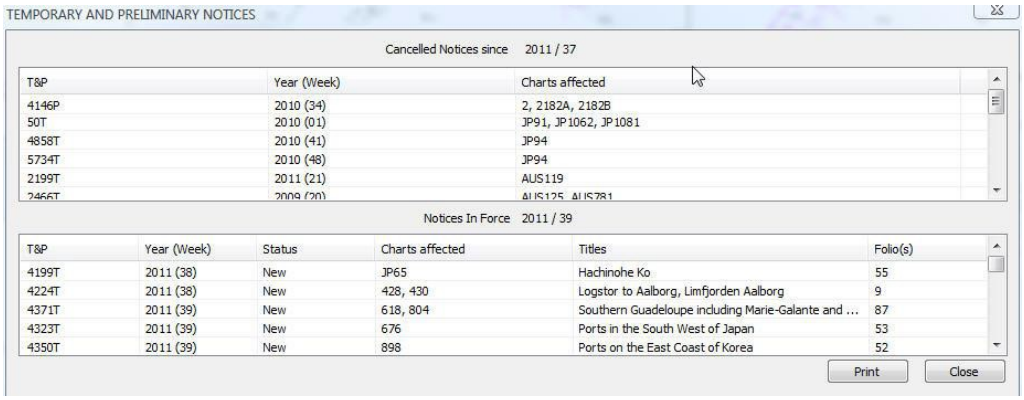
- List of All NTM,
- filtered to SF list,
- filtered to WF list.



Example: List of All NTM issued in week 41 and 42, year 2011

T&P NOTICES REPORT

Every week, the list of T&P Notices in force is provided by UKHO in paper Chart Catalogue update. Two lists (not the Notices themselves) are displayed in the T&P notices window.


TEMPORARY AND PRELIMINARY NOTICES
Cancelled Notices since 2011 / 37
T&P
Year (Week)
Charts affected
4146P 2010 (34) 2, 2182A, 2182B
50T 2010 (01) JP91, JP1062, JP1081
4858T 2010 (41) JP94
5734T 2010 (48) JP94
2199T 2011 (21) AUS119
Notices In Force 2011 / 39
T&P
Year (Week)
Status
Charts affected
Titles
Folio(s)
4199T 2011 (38) New JP65 Hachinohe Ko 55
4224T 2011 (38) New 428, 430 Logstor to Aalborg, Limfjorden Aalborg 9
4371T 2011 (39) New 618, 804 Southern Guadeloupe including Marie-Galante and ... 87
4323T 2011 (39) New 676 Ports in the South West of Japan 53
4350T 2011 (39) New 898 Ports on the East Coast of Korea 52
Print
Close

- Top Frame: **Cancelled Notices since week/year**
  The list of T&P Cancelled (not any more in force) since the last catalogue update.
  For example, Catalogue is updated till week 39 and list of cancelled T&P since week 37.
- Bottom Frame: **Notice in Force**

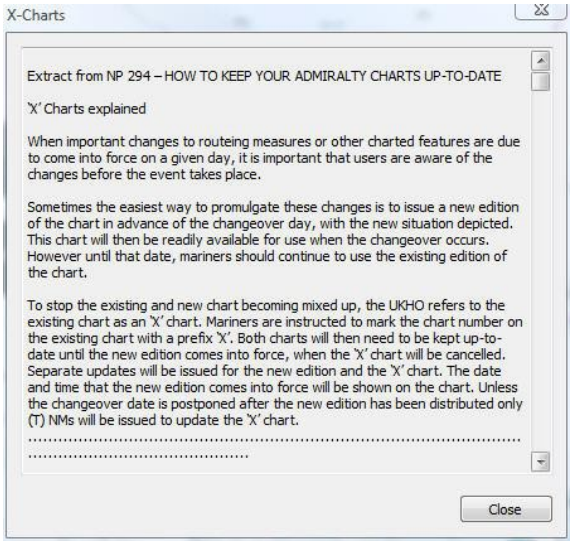
  The list of T&P In force at one moment, since the last catalogue update.

  For example, Catalogue is updated till week 39 and the full list of T&P in force week 39.
- Use **Print** button to display a XML document ready to be printed or saved.

  Remark: it is possible to download the last T&P Catalogue from "Download" menu, independently of Paper Chart Catalogue

X CHARTS

- This page displays all information related to the issue of X charts by UKHO.

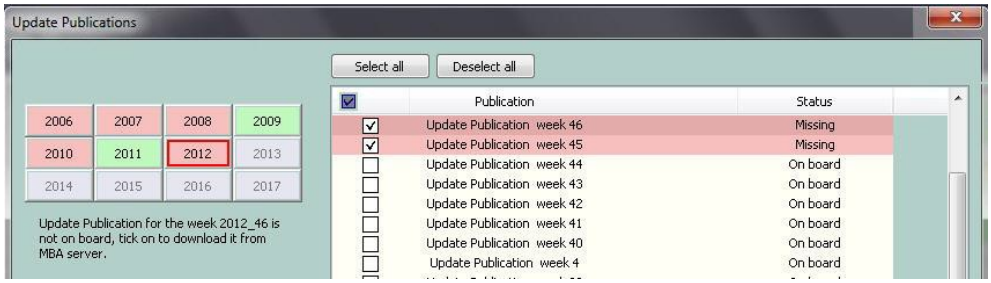

X-Charts
Extract from NP 294 – HOW TO KEEP YOUR ADMIRALTY CHARTS UP-TO-DATE
'X' Charts explained
When important changes to routeing measures or other charted features are due to come into force on a given day, it is important that users are aware of the changes before the event takes place.
Sometimes the easiest way to promulgate these changes is to issue a new edition of the chart in advance of the changeover day, with the new situation depicted. This chart will then be readily available for use when the changeover occurs. However until that date, mariners should continue to use the existing edition of the chart.
To stop the existing and new chart becoming mixed up, the UKHO refers to the existing chart as an 'X' chart. Mariners are instructed to mark the chart number on the existing chart with a prefix 'X'. Both charts will then need to be kept up-to-date until the new edition comes into force, when the 'X' chart will be cancelled. Separate updates will be issued for the new edition and the 'X' chart. The date and time that the new edition comes into force will be shown on the chart. Unless the changeover date is postponed after the new edition has been distributed only (T) NMs will be issued to update the 'X' chart.
Close

ORDER UPDATE PUBLICATIONS

Sections III, IV, V, VI of the full Admiralty NTM paper document issued by UKHO describe the weekly updates of:

- Navigational warnings
- Admiralty sailing directions
- Admiralty List of Lights and fog signals
- Admiralty List or Radio signals

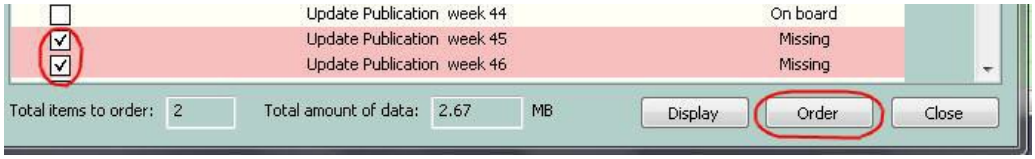
The status "On board" or "Missing" is displayed per week.



List of Publication is displayed per year

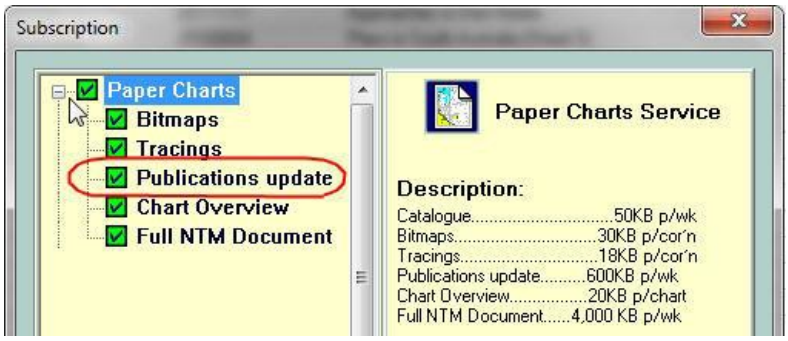
- row in White when Publication is on board: status= "On board"
- row in pink when Publication not on board: status="Missing"
- When row is selected, status of the document is displayed on the top left of the window (example week 46 is missing).
- If selected raw publication is on board (example week 44), button **display** is "active" to open the document.

Select and press "**Order**" to get missing weeks.



Remark

The user can receive automatically this document weekly by subscription:



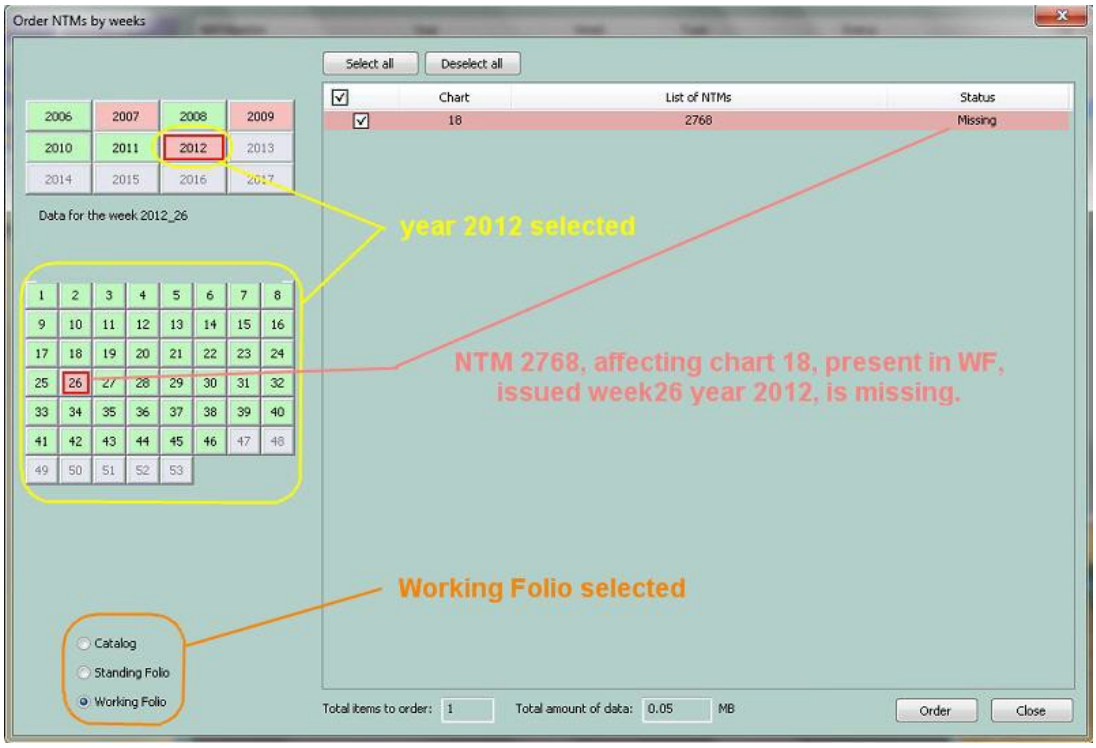
Publication Update weekly updated by subscription

ORDER FULL NTM DOCUMENT

The same approach is used for the full Admiralty NTM document as for "Update NTM document".

ORDER NTM BY WEEK

Select Menu "PaperCharts/Order NTM by week" to open NTM management window:



This window gives status of NTM data presence in the system :

- per year (2012 selected in example)
- per folio (SF or WF) , or full catalogue for all charts present in the catalogue.

The left side give an overview :

Red means that at least one NTM is missing:

example with NTM 2768, Year 2012 and week 26 have a Red Status.

The right side is the list of missing NTM, selected ON by default

Adjust selection by simple Left click, and press "**Order**" to send the request.

After reception of missing data, list is empty and status a green

LOAD HISTORICAL DATA FROM CD

The MBA server does not send NTMs issued before the date of Registration.

It is possible to download all NTMs for a specific period (Year, from week n to week n+l) chart(s) from MBA data CDs. Full NTM data is available from the 1st January 2006.

NB. The server does not store data before January 2006.

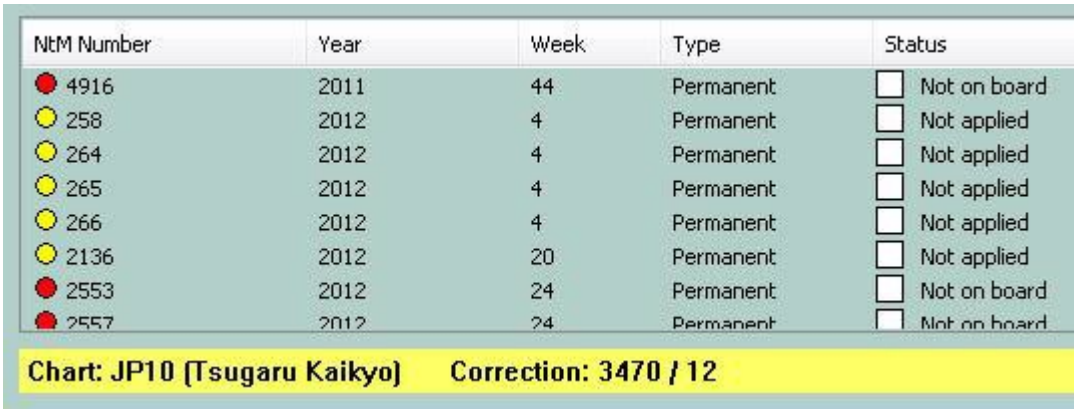
NTM data may be copied from MBA annual, quarterly and monthly CDs. MBA data CDs can be ordered from ChartService@maris.no. These CDs contain all NTM text, bitmaps and chart thumbnails. There is a small charge for the compilation, handling and postage of these CDs to a chart agent or Ship Manager. The CDs are only available for MBA subscribers.

Use Menu "PaperCharts/Load historical data from CD" to download all data from the CD.

When CD is inserted, a prompt will offer the same possibility.

Popup window is displayed during the transfer

Example



NtM Number	Year	Week	Type	Status
4916	2011	44	Permanent	Not on board
258	2012	4	Permanent	Not applied
264	2012	4	Permanent	Not applied
265	2012	4	Permanent	Not applied
266	2012	4	Permanent	Not applied
2136	2012	20	Permanent	Not applied
2553	2012	24	Permanent	Not on board
2557	2012	24	Permanent	Not on board

Chart: JP10 (Tsugaru Kaikyo) Correction: 3470 / 12

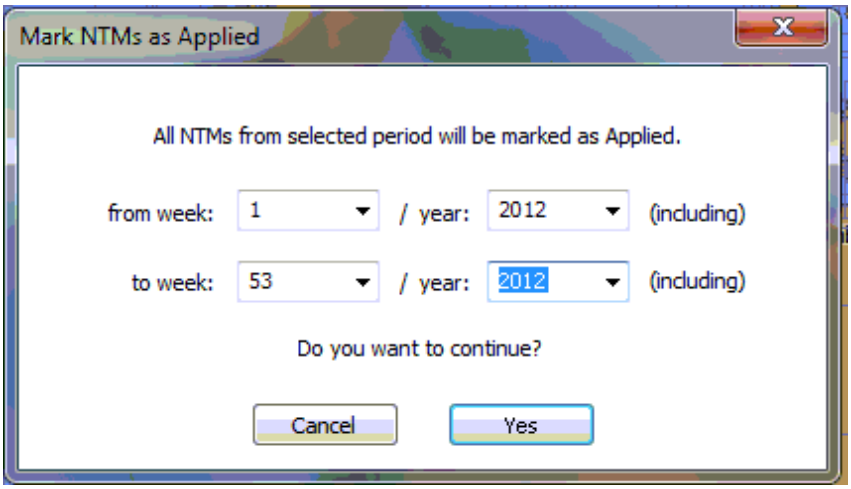
JP10, no NTM 2012 is on board

After Data downloaded from CD (2012, week 1 to 23 available)

MARK NTMS AS APPLIED

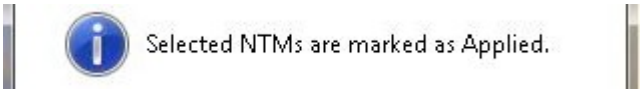
After historical data are loaded from CD or downloaded from the server, newly installed NTM are marked "Not Applied".

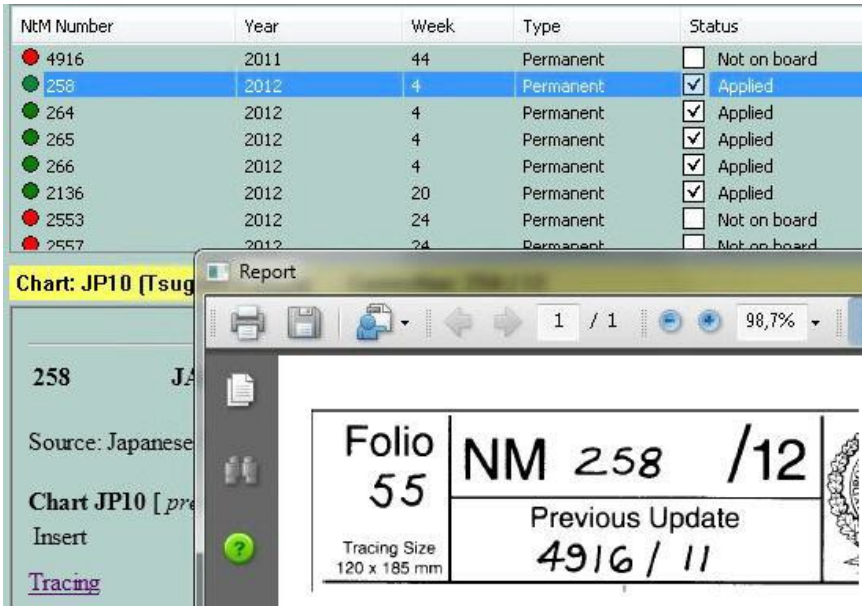
It is possible to mark NTMs as "applied" using this menu, and select the relevant period.


Mark NTMs as Applied
All NTMs from selected period will be marked as Applied.
from week: 1 / year: 2012 (including)
to week: 53 / year: 2012 (including)
Do you want to continue?
Cancel
Yes

Example: All NTM issued in 2012 to be applied

Click "Yes"





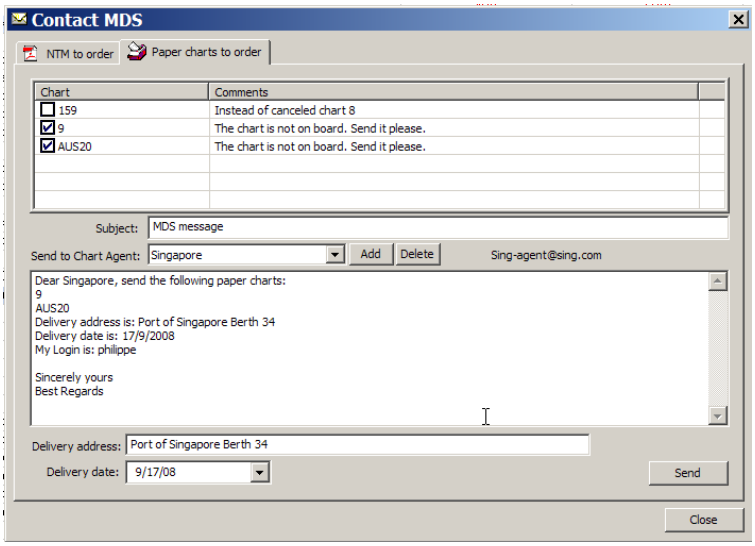
JP10, NTMs 2012week 01 to 23 are on board: Status Applied

ORDERING PAPER CHARTS

The MBA Manager can be used to order paper charts from the Ships contracted chart agent or through MBA.

There are several ways to add charts to the "**Paper charts to order**" folder on the **Order** dialog:

- From the Catalogue page.
- From the New charts page.
- From the Route Planner



Charts 9 and AUS20 have been ordered manually.

ORDER PROCESS

The procedure for ordering paper charts is as follows:

- Add charts to the Paper charts to order list on the **Order** dialog using one of the above methods.
- Press the "**Order"** button on the bottom menu bar to open the **Order** dialog and then press the Paper Charts to order Tab.
- Make sure there are ticks in the boxes alongside required charts.
- Enter the email address of the paper chart agent (or the purchasing department) where the order will be sent.
- Enter the delivery address and required delivery date for the paper charts.
- Press the Send button.

NB. Each ordered chart will be shown in the Catalogue as Ordered and a list will appear under the Ordered charts Tab on the Reports page.

ORDER FOLLOW UP

Pressing the ***Ordered charts*** button on the ***Report page*** opens the page. All ordered charts are listed and the user can follow each order through to delivery.

When paper charts are received on board the user acknowledges receipt by ticking off the charts. The charts are removed from the ***Ordered Charts*** list and moved to the ***Standing Folio***.

ROUTE PLANNER

GENERAL

Route Planner is used to lay off a route and list the charts / publications (Paper, ENC, AVCS, ARCS, ADLL, ADRS, Weather and currents) needed to make a voyage.

Individual lists of charts are generated from the catalogues stored within MBA Manager and automatically checked against the relevant ***Standing Folio*** to determine which new charts and publications are **required**, and which charts have to be **updated**. The software even prepares an email order for all new charts and corrections for the publications.

The route planner assists the navigator to:-

- Quickly and simply lay off a route.
- Display paper and/or electronic charts catalogues.
- Display Permits and Chart Status for Standing/Working Folios, and selected Chart
- View ordered Charts
- List all charts / publications required for the route.
- Optimize the list of paper and electronic charts to be ordered and updated.
- Place an order for new or missing paper or electronic chart and publications.
- Prepare the Voyage Plan for the planned route
- Order and display the weather and current forecasts along the route (Subscription required), necessary for VDS module in ECDIS (Voyage Decision System- Fuel saving)
- Display the world port database and allows to access detailed port information (Subscription required)

IMPORTANT

A route, together with an associated list of publications is automatically saved and may be re-loaded on Route Planner at any time. When a route is re- loaded the list of charts is compared with the current catalogues and any changes are highlighted (new or cancelled charts).

This unique feature allows preparing in advance the next route, to select carefully all necessary charts / publications and order eventually the required paper charts. Afterwards, just before the route is activated the user loads the route and the associated list of charts and publications and places an order for new electronic charts / publications and updates.

WORLD MAP

The Route Planner uses a scalable vector chart to graphically display the latest available ENC, ARCS and UKHO chart catalogues. In addition ADLL and weather forecasts areas are displayed on the world map.

MBA AND ROUTE PLANER: CONCEPT

The concept of MBA is as follow:

- The user plans in advance the route and selects the necessary charts and publications.
- The necessary paper charts are ordered in advance to be sent to the departure port
- The route is saved together the selected lists of charts and publications
- Just before the departure the route is loaded and the missing electronic chart permits ordered
- The lists of selected lists of charts and publications are transferred as Working Folios by pressing the button
- The new Working Folios must be sent to MBA server to subscribe and all necessary updates will be sent back to the ship as soon as the new Working folios are registered in the server.

GRAPHICAL DISPLAY CONTROL OVERVIEW

SCROLL AND ZOOM

To scroll the background vector chart, the user must hold down the left button whilst moving the cursor in the desired direction.

To centre the chart at a required location, the user must place the cursor at this location and double click the left button.

To zoom in or out, the user must left click the F1 or F2 key. Alternatively, he must use the vertical Pan Zoom tool displayed vertically at the top right of the window

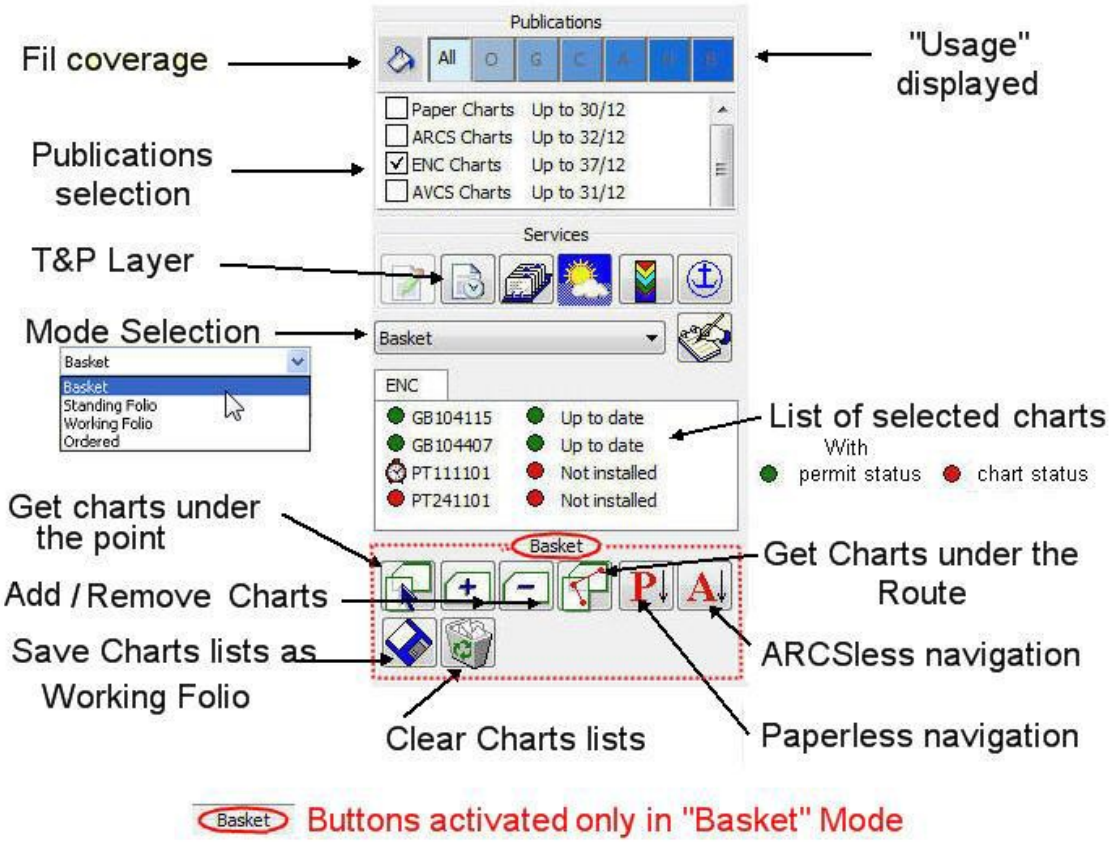
or the scroll wheel on the mouse. The zoomed chart is centered at the cursor location, displayed with the scale at the bottom left of the Route Planner.

The easiest way to zoom in or out is to use the middle wheel button of the mouse which allows zooming in and out at the location of the mouse.

DISPLAY AND FILTERING OPTIONS

Different buttons allow

- Changing the publications displayed (ENC, AVCS, ARCS etc...)
- filtering the list and type of charts displayed by “Usage” (O, G, C...).
- changing mode (basket, SF, WF, ordered)
- adding additional layer like Weather, T&P, DNV navigator, Tide...



Several buttons below the publications list allows customizing the display

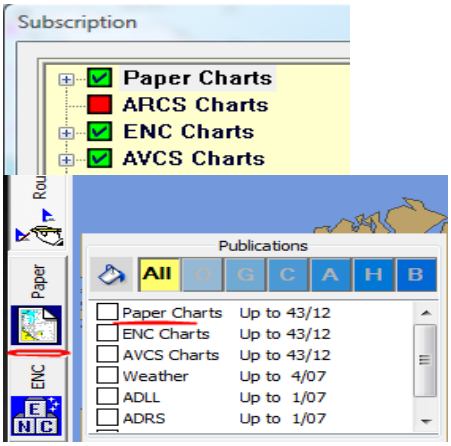
PUBLICATION DISPLAY CONTROL

AVAILABLE PUBLICATION

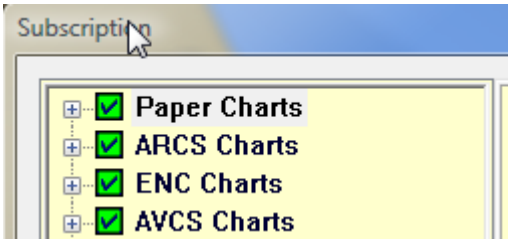
List of available publication is depending of the subscription:

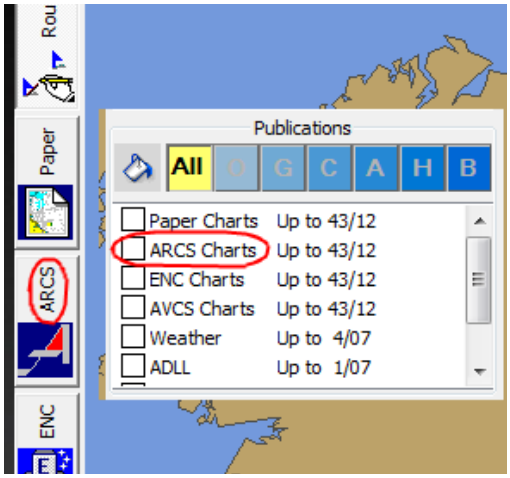
Example with ARCS collection:

ARCS NOT in subscription



ARCS in subscription



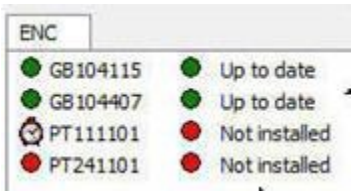


REMARK: when subscription is changed, it is necessary to restart application to get list of available publication updated. After installation, and before MBA activation, only Paper Chart publication will be displayed.

PUBLICATIONS SELECTION

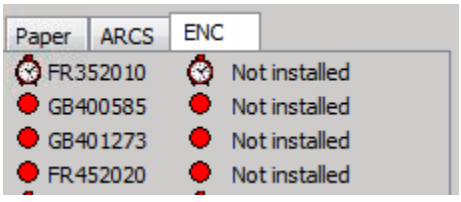
Select publication you want to work with by checking ON relevant box.

When one publication is selected, the corresponding Tab is activated in « Selected Chart List » Area



Case of several publications selected

One Tab is created for each active publication, and the list of chart is corresponding to but only one Tab



ENC Chart listed here

"USAGE" SELECTION

Use following control to define Chart Usage:

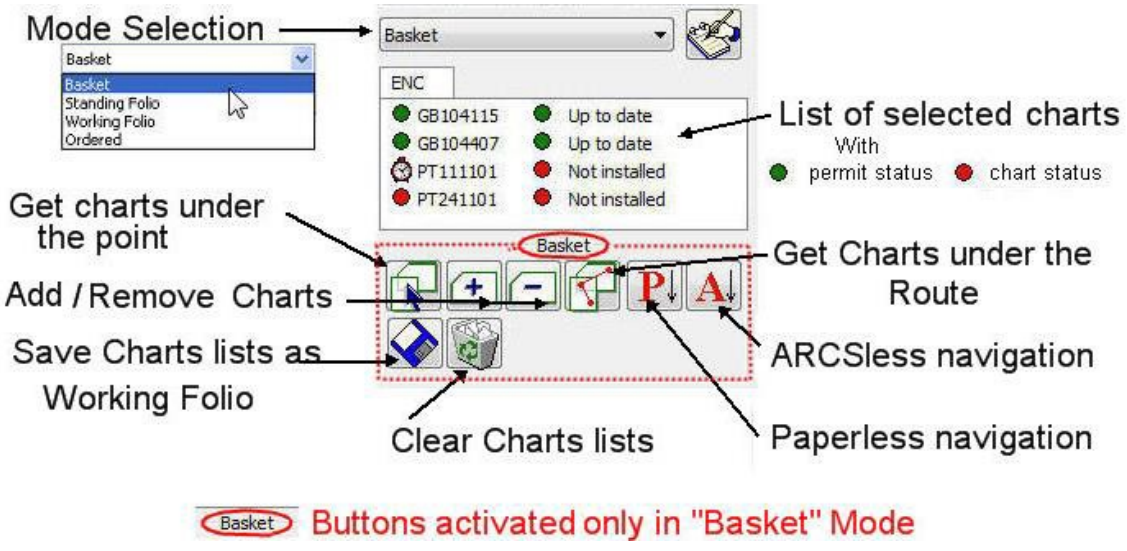
Example for only Approach charts, any combination or "All" is valid

Remark: "All" is selected, other button are inactivated

"MODE" SELECTION

There is 4 different « mode », listed below:

- **Basket**: working mode is used to define necessary charts for a route, and order missing permits and charts.
- **Standing Folio**: SF mode is used to check Status of Holding, and eventually order missing updates.
- **Working Folio**: WF mode is used to check Status of WF (normally equivalent to the Charts maintained for the current Voyage, and eventually order missing updates
- **Ordered:** Status and for ordered charts.



BASKET MODE

Basket mode is used basically to define necessary Charts for a route. In this mode, all buttons (picture below) are active, allowing to :

- Get charts under the route
- Optimize the list of Charts using ARCSless and Paperless button
- Add or Remove charts from the list in order to adjust
- Order missing permits and charts
- Save selection as Working Folio to get Weekly Update for the route.
- Clear the selection in order to prepare a new route.

STANDING FOLIO MODE

This option allows visualizing the different Standing folios, in fact the charts which are on board.

WORKING FOLIO MODE

This option allows visualizing the different Working folios, in fact the charts and publications which are on board.

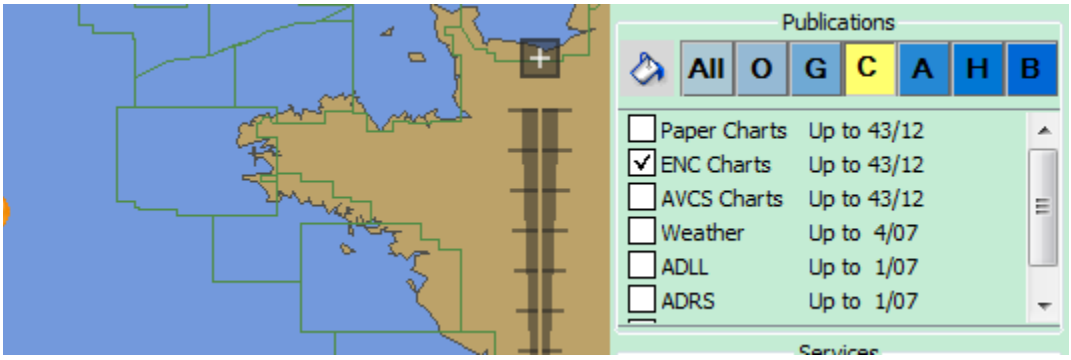
ORDERED CHARTS MODE

This option allows visualizing the different standing folios, in fact the charts and publications which are on board.

PUBLICATIONS DISPLAY

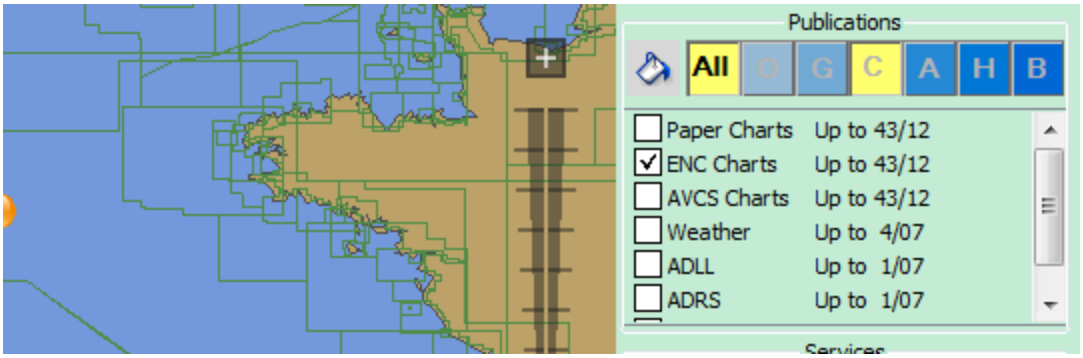
Chart borders and filling are displayed for selected publication, with a dedicated color:

- **ENC:** light *Green*,
- **AVCS:** light Brown,
- **Paper:** light Blue,
- **ARCS:** light Purple,
- **Weather:** dark Green
- **ADLL:** light Orange
- **ADRS:** dark Yellow,
- **ADTT:** dark Purple



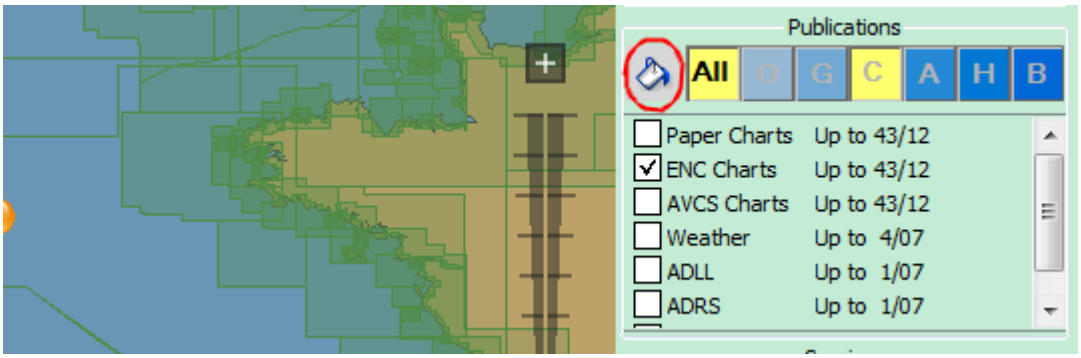
ENC Charts border for selected usage (Costal here in example)

Or press "All" for all usages

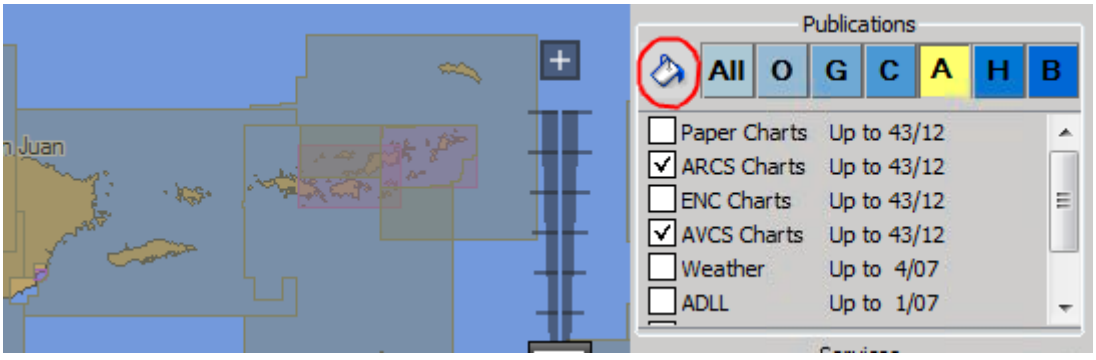


ENC Charts border for selected usages (All here in example)

Use button to fill up inside displayed charts borders and show chart coverage



ENC charts border and filling (all usages) are displayed with dedicated « Green » color



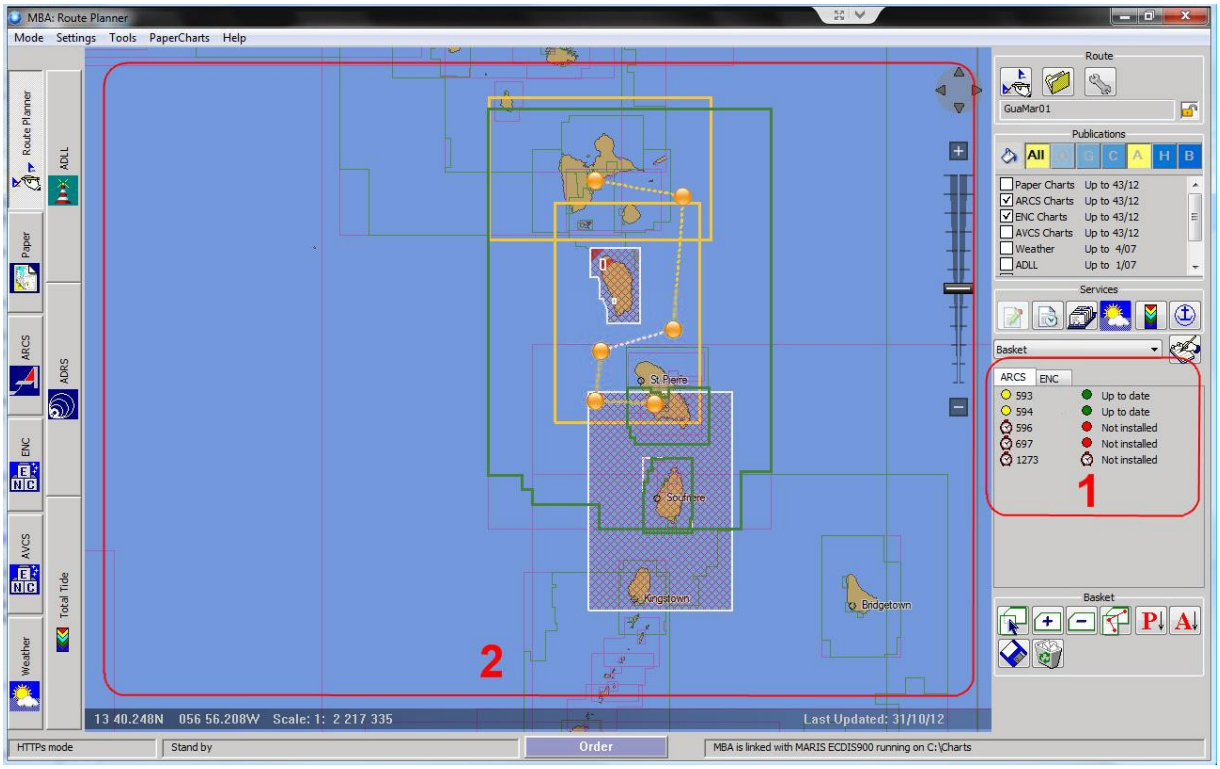
ARCS and AVCS charts (only Approac usage) are displayed with dedicated color : Purple for ARCS and Brown for AVCS

Remark: this is the display when NO Chart is selected in the area. When a chart is selected in the area, it will affect the display of charts boarder and coverage as described in next paragraph.

CHART DISPLAY

Charts status is displayed in the 2 following areas:

- **1**: with coloured symbols in the chart list (frame 1) of the Route Planner window :
- **2**: graphically in the chart area (frame 2)



Active tab is ARCS. ARCS Chart status is detailed in frame 1 and 2

On the top of Publication display, graphical information is provided for selected charts present in the list under active publication Tab, depending on selected « **Mode** » in force.

INFORMATION FOR SELECTED CHARTS IN THE LIST (FRAME1)

Selected Charts are listed in the right side with detailed status:

Active publication tab is ENC

Permits Status (symbol + text)

- Red: no permit or expired,
- Yellow: permit will expire within 1 month Green: permit is valid
- Clock symbol : permit is ordered

Charts status.(symbol + text)

- Red: not installed / missing update / new edition available
- Green: Up to date / Canceled
- Clock symbol: ordered.

INFORMATION FOR SELECTED CHARTS IN THE CHART AREA (FRAME2)

All charts present in the list are displayed with graphical status in the chart area. This synthetic information is drawn on the top of « Publications » borders described above:

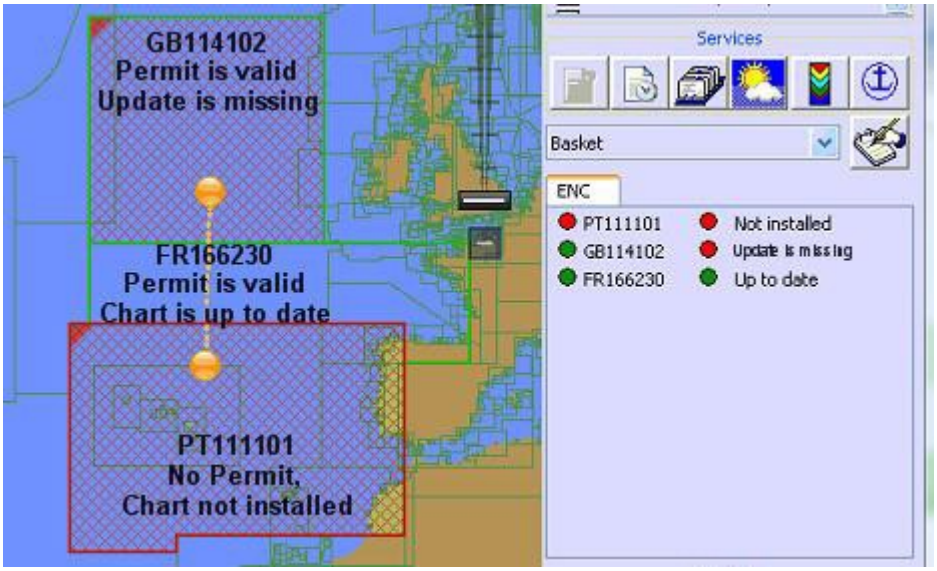
Permit Status identified by border shape (thick line) and colored:

- Red: no permit or expired,
- Yellow: permit will expire within1 month Green: permit is valid
- White: permit is ordered

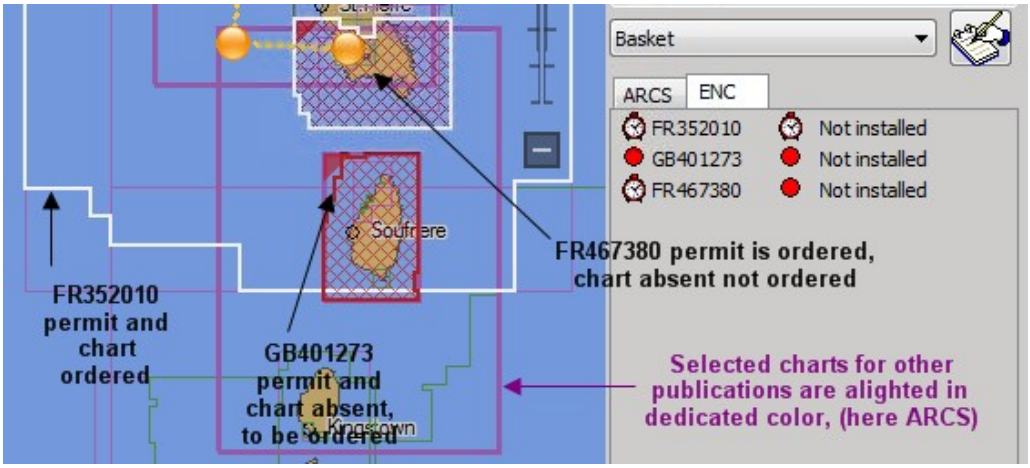
Chart Status identified by filling inside border

- Up to date: empty Ordered : empty
- Not Up to date: Red wiring filling inside border + Red triangle on the top left corner

EXAMPLES



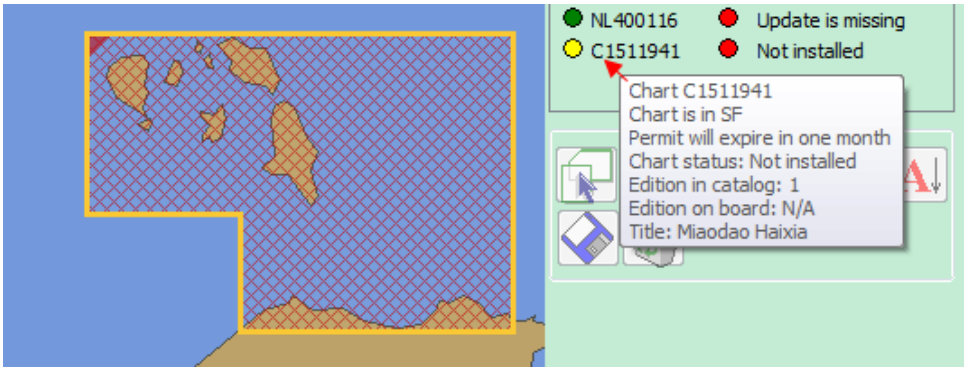
ENC publication active, 3 charts selected in basket



ENC and ARCS publication selected ;

ENC Tab active: 3 ENC charts listed with graphical status.

Note highlighted borders for selected ARCS present in the basket.



Let mouse cursor on the chart to get full information as here in the example:

C1511941 permit will expire; Chart not installed.

Yellow color for border and permit status «Will expire ».

ROUTE PLANNING

The route planner program follows the traditional paper chart procedure, adopted by navigators around the world, for laying off a new route, loading and editing an existing one, editing the Voyage Plan linked with the route and calculating and optimizing the list of publications required for the voyage.

Main controls are on the top right of the window, in “Route” frame:

Plot a Route

Load an existing route

Parameter for Chart Processing

PAYS Control Window

PLOTTING A ROUTE

PLACING WAYPOINT GRAPHICALLY

L/click the waypoint button to activate the waypoint tool.

The first waypoint will be placed on the screen under the cursor when the next l/click is made. The user can then continue placing waypoints in the same way along the route.

The chart will automatically move under the cursor as the edge of the display is reached.

When plotting the route, it is possible to zoom in or out on the chart by using the slider at the top of the consol, the middle wheel of the mouse or by pressing the button F1 or F2.

A double click at the last waypoint closes the list of waypoints and a dialog box appears on the screen for the user to name the route. Completing this task saves the route in the Route folder but leaves it on the screen.

ENTERING THE ROUTE BY KEYBOARD

L/click the waypoint button to activate the waypoint tool and then L/click on the button to open the Voyage Plan window and enter by keyboard the waypoint positions.

LOADING AN EXISTING ROUTE IN ECDIS900 FORMAT.

L/click the ***Load Route*** button to open the archive of existing routes. Select the route name and click Open. The route will instantly appear on the display

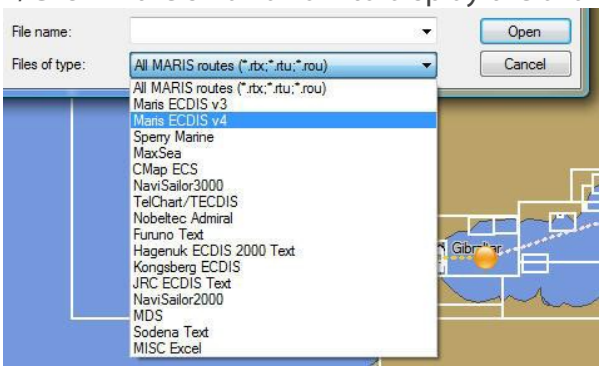
To delete a route from the route list, the user must r/click on a leg of the route to open a pop-up menu and l/click ***Delete*** in the list. Alternatively in the ***Load Route*** dialog, select the route and push the ***Del*** key.

To unload the route, r/click on the route and activate the item menu Unload.

LOADING AN EXISTING ROUTE IN OTHER FORMAT

L/click the ***Load Route*** button to open the archive of existing routes.

L/Click in the small arrow to display the available route format in MBA and select the format:

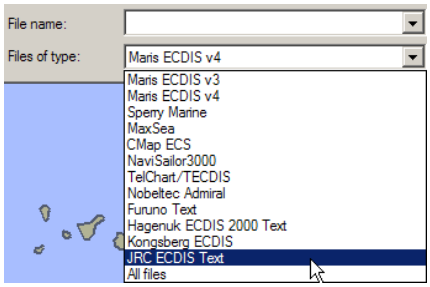


Select the route name and click Open. The route will instantly appear on the

displayю

UNLOADING AND SAVING TO ANOTHER FORMAT

To unload the route and save it in a specific format, r/click on the route and activate the item menu Save As and unload.



Select in the list the format of the route

EDITING A ROUTE

EDITING GRAPHICALLY

Waypoints can be added, deleted, appended and moved as required after the provisional route has been made.

R/clicking on a route leg opens a pop-up menu allowing the user to:

- Insert a waypoint and then move it to the desired position.
- Append a new waypoint(s) at the end of the route (Double click to finish)

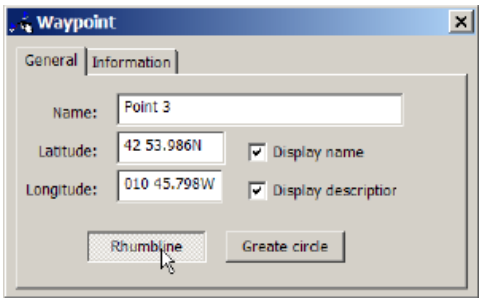
NB. To move a waypoint, L/Click on the waypoint and drag the waypoint to the new location. Alternatively the position can be adjusted by keyboard. See next paragraph.

IMPORTANT

To avoid any accidental change to an existing route it is recommended that the route is locked (in the pop-up menu). Indeed a locked route or waypoint cannot be modified.

EDITING BY KEYBOARD

R/click on a waypoint and activate Properties.



The position can be adjusted by keyboard. Enter the new latitude or longitude and then validate the entry by L/clicking in a different part of the text box. It

is also possible to change the name of the waypoint, the display option and

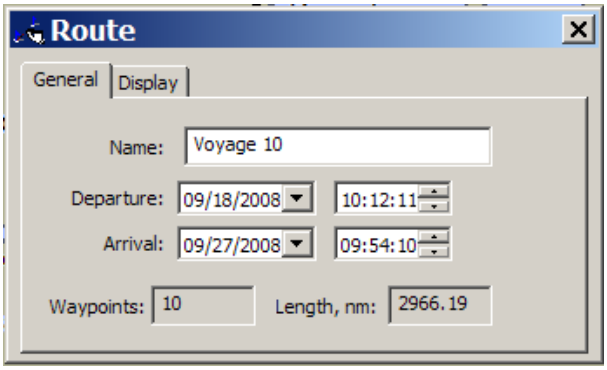
the type of leg starting at the selected waypoint.

FROM VOYAGE PLAN

Alternatively the Voyage plan allows editing existing waypoint, adding or removing waypoints and changing the leg parameters including type of leg, SOG, XTE, Rate of turn.

ROUTE PROPERTIES AND DEPARTURE TIME

R/click on a route leg and activate Properties



The departure time may be edited in the General panel of the properties dialog, the arrival time will be changed accordingly.

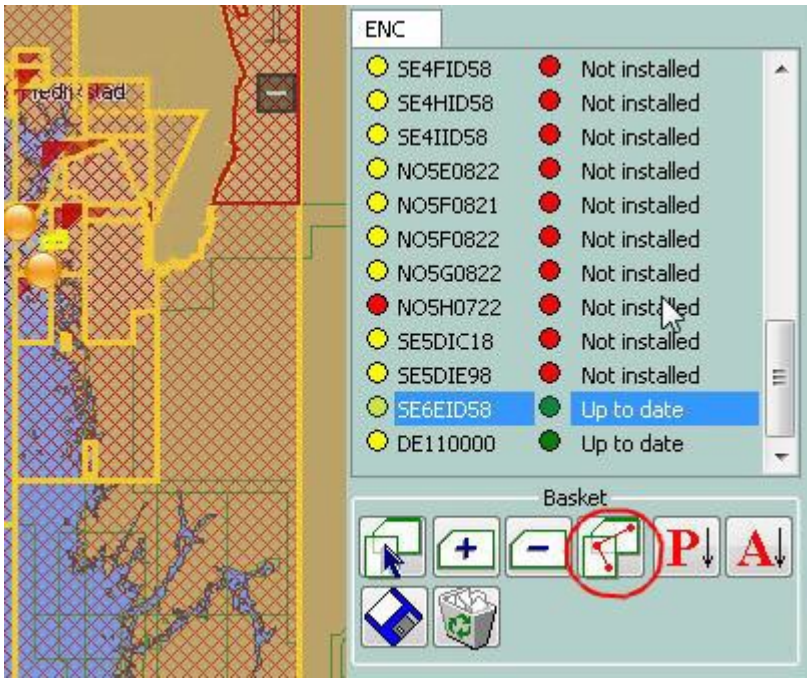
BUILD THE LISTS OF CHARTS / PUBLICATIONS UNDER THE ROUTE

The basket is built from a loaded route and includes the lists of charts and publications selected automatically under the route. The lists may be adjusted manually by the navigator.

GET ALL CHARTS UNDER THE ROUTE

After plotting a route, the user must l/click the ***Get charts under the route*** button to produce a list of charts from each catalogue. L/Click either the tab ***ENC, AVCS, ARCS or Paper Charts*** at the top of the chart list to show that list..

REMARK: This calculation lists **ALL** charts under the route which means that there may be more charts than are necessary. Therefore it is recommended to carefully check the list of charts and remove eventually some of them using the graphical tool .



CALCULATION AND DEPARTURE DATE

The calculation for ENC, AVCS and ARCS takes in account the departure and arrival date. Indeed if ENC, AVCS or ARCS permits expire before the arrival date the permits will be automatically added to the list of permits to order for this particular route.

RECALCULATION

If the loaded route is modified the lists of charts are not automatically recalculated but the button ***Get Charts under the route*** flashes, indicating that a recalculation is necessary.

DISPLAY OF SELECTED CHARTS

Report

Press the button **Report**

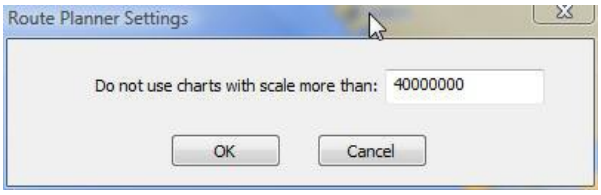
to get a complete description in HTML format of the selected publications along the route including, for ENC, AVCS and ARCS, description of the existing and missing permits with prices and status of the charts in ECDIS900 (Installed and updated or Installed and missing update or Not Installed).

SETTINGS: CALCULATION PARAMETERS

The calculation is controlled by 2 parameters

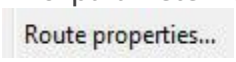
- Scale limit

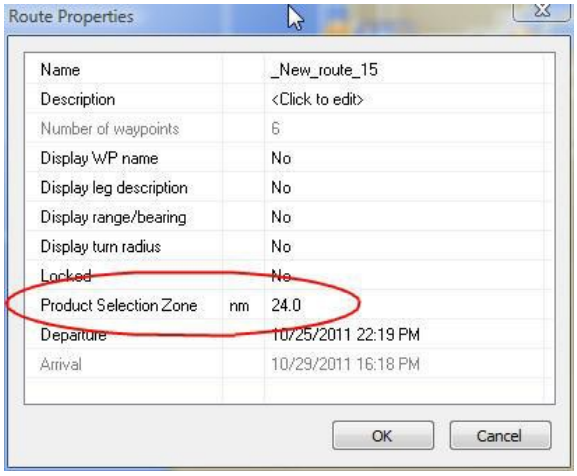
  Accessible by clicking the button Settings to define chartscale limit.



  This parameter is used to filter the general charts i.e. not to include in the selected charts under the route the charts with a scale smaller than the selected value

- Production selection zone

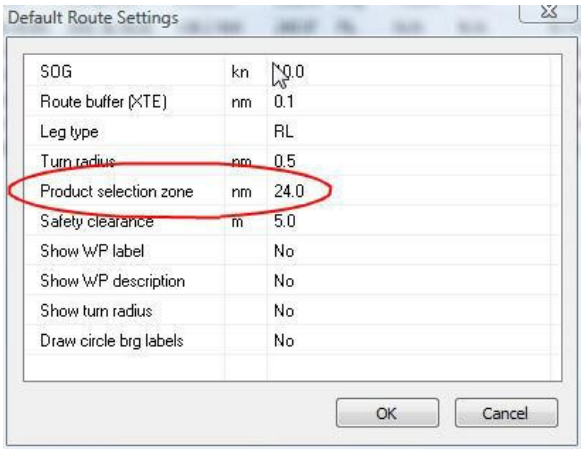
  This parameter is visible in Route Properties (right click on the route and select 



"Product Selection zone" defines the corridor along the route against which the charts will be selected i.e. if a chart intercepts the corridor it is added to the list. Larger is the corridor more charts will be selected.

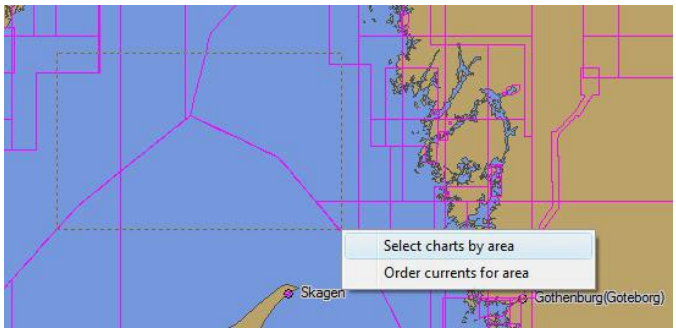
REMARK

The default value (24 nm after MBA installation and in the example) can be modified in "Default Route Settings" in Voyage Planner



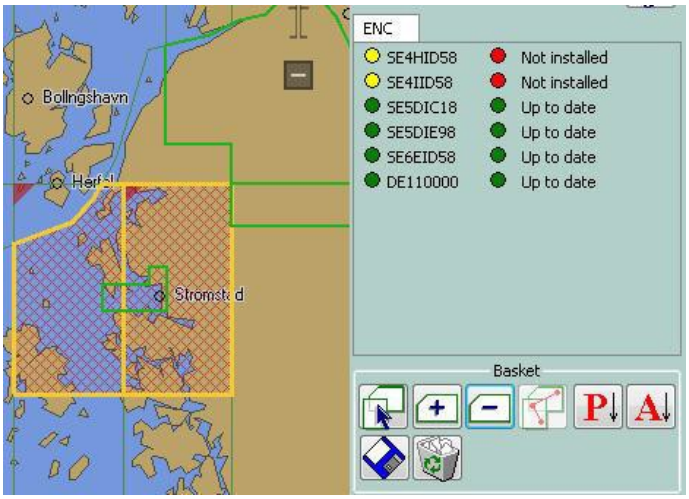
SELECT CHARTS BY AREA

Right click on the screen and move cursor to define a rectangle



Select menu "Order current for Area" to open Current data ordering wizard and order currents.

Charts in the area are selected, and listed in proper tab (ENC in this example)



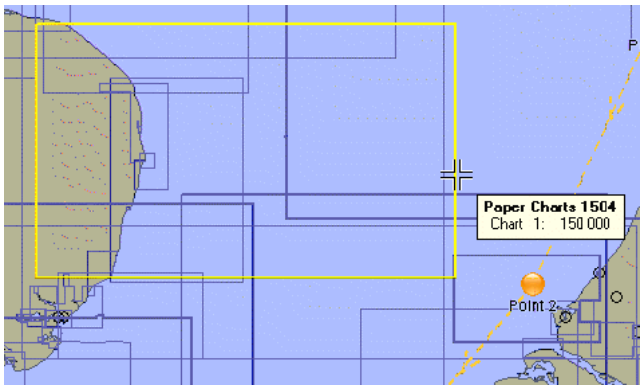
ADJUST THE CHART LISTS MANUALLY

The calculation of charts along the route is automatic but can be adjusted manually, graphically or by keyboard.

ADD / REMOVE A CHART GRAPHICALLY

Sometimes two paper or ARCS charts of a similar scale cover much of the same area. Where this situation occurs, one of the charts may be removed from the chart list manually.

Select the button and move the cursor over the chart boundary. The name of the chart is displayed, L/Click to add the chart to the list or R\Click to remove it from the list.



NB. Make sure the proper catalogue is selected.

ADD / REMOVE A CHART BY KEYBOARD

Adding a chart by number is possible by L/Clicking the button and selecting the chart number. Deleting a chart by number is also possible by selecting the chart number in the list and L/Clicking the button.

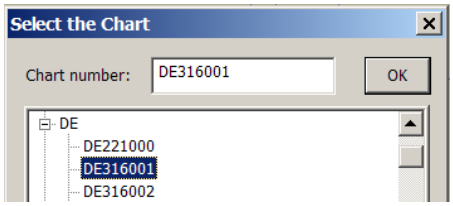


Chart DE316001 is added to selected ENC list

OPTIMIZE THE LIST OF CHARTS

ARCSLESS

In ARCSless (Dual Fuel mode) the ship would primarily use ENCs but revert to ARCS charts where ENCs are not available or when better ARCS charts is available. The user must l/click

the ARCSless calculation button to generate a list ARCS charts completing the list of selected ENC charts for sailing in Dual Fuel Mode.

NB. Flag State Authority must approve the carriage of ENC and ARCS charts and also provide guidelines for the list of emergency paper charts to be carried.

PAPERLESS

Left click the ***Paperless calculation*** button to calculate the number of "emergency paper charts" that must be carried on a ship using ECDIS. This calculation is made according to SOLAS carriage requirements.

NB. Sometimes two paper charts of a similar scale cover much of the same area. Where this situation occurs, a chart can be manually removed from the chart list.

IMPORTANT

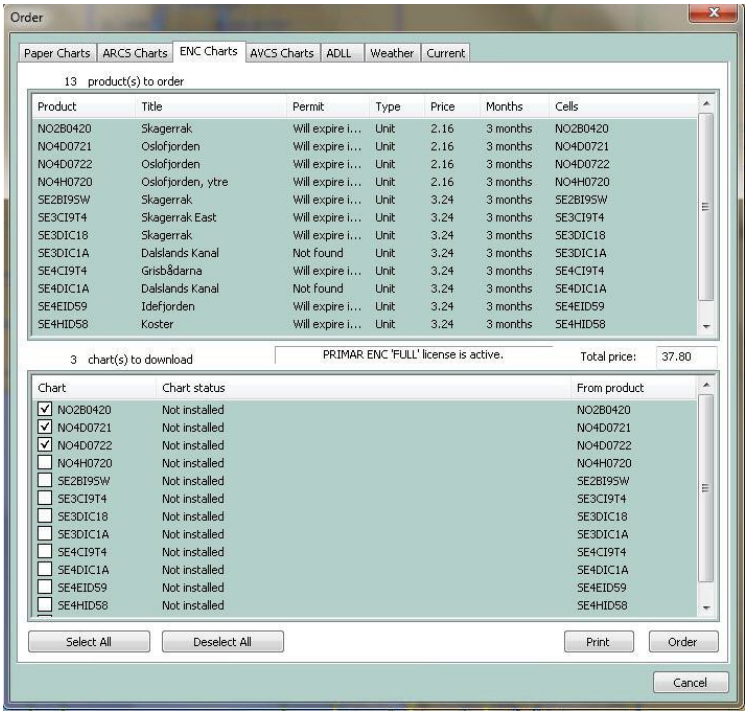
After automatic optimization the user should check the calculated list of charts to control and adjust manually them.

ORDER: ORDERING MISSING CHARTS AND PUBLICATIONS

"ORDER" FUNCTION

After the route is planned and the lists of charts and publications calculated and optimized it is possible:

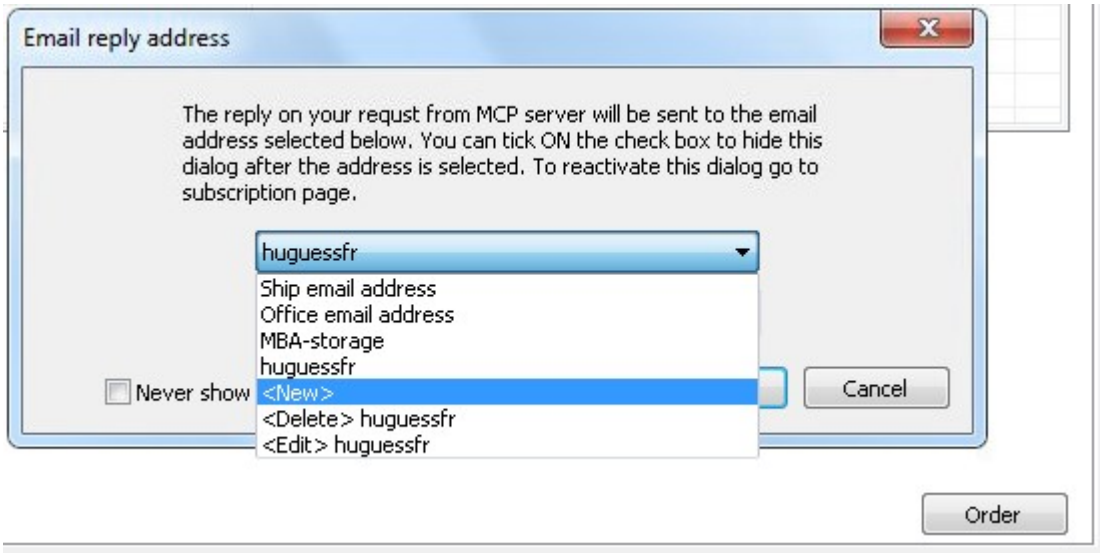
- To order eventually missing paper charts for this voyage
- To order eventually missing ENC,AVCS or ARCS permits
- To request weather forecasts for selected areas.
- To request currents forecast along the route
- To edit the Voyage plan
- To order eventually missing publications ADLL or ADRS


Order
Paper Charts
ARCS Charts
ENC Charts
AVCS Charts
ADLL
Weather
Current
13 product(s) to order
Product
Title
Permit
Type
Price
Months
Cells
NO2B0420 Skagerrak Will expire i... Unit 2.16 3 months NO2B0420
NO4D0721 Oslofjorden Will expire i... Unit 2.16 3 months NO4D0721
NO4D0722 Oslofjorden Will expire i... Unit 2.16 3 months NO4D0722
NO4H0720 Oslofjorden, ytre Will expire i... Unit 2.16 3 months NO4H0720
SE2BI9SW Skagerrak Will expire i... Unit 3.24 3 months SE2BI9SW
SE3CI9T4 Skagerrak East Will expire i... Unit 3.24 3 months SE3CI9T4
SE3DIC18 Skagerrak Will expire i... Unit 3.24 3 months SE3DIC18
SE3DIC1A Dalslands Kanal Not found Unit 3.24 3 months SE3DIC1A
SE4CI9T4 Grisbådarna Will expire i... Unit 3.24 3 months SE4CI9T4
SE4DIC1A Dalslands Kanal Not found Unit 3.24 3 months SE4DIC1A
SE4EID59 Idefjorden Will expire i... Unit 3.24 3 months SE4EID59
SE4HID58 Koster Will expire i... Unit 3.24 3 months SE4HID58
3 chart(s) to download
PRIMAR ENC 'FULL' license is active.
Total price: 37.80
Chart
Chart status
From product
NO2B0420 Not installed NO2B0420
NO4D0721 Not installed NO4D0721
NO4D0722 Not installed NO4D0722
NO4H0720 Not installed NO4H0720
SE2BI9SW Not installed SE2BI9SW
SE3CI9T4 Not installed SE3CI9T4
SE3DIC18 Not installed SE3DIC18
SE3DIC1A Not installed SE3DIC1A
SE4CI9T4 Not installed SE4CI9T4
SE4DIC1A Not installed SE4DIC1A
SE4EID59 Not installed SE4EID59
SE4HID58 Not installed SE4HID58
Select All
Deselect All
Print
Order
Cancel

The button Order gives access to Active Publications panels controlling the data to order

"ORDER" PAGE IN EMAIL MODE

When communication method is setup to "Email", it is possible to specify the email address to be used by the server for the answer from the list. By default it is "Ship email" address, but the dialog allows to configure a list of email addresses:


Email reply address
The reply on your requst from MCP server will be sent to the email address selected below. You can tick ON the check box to hide this dialog after the address is selected. To reactivate this dialog go to subscription page.
huguessfr
Ship email address
Office email address
MBA-storage
huguessfr
<New>
<Delete> huguessfr
<Edit> huguessfr
Never show
Cancel
Order

Email addresses list configuration dialog

SAVE CHART LIST AS A WORKING FOLIO

The "**Save charts list as the Working Folio"** button is a powerful function that moves the displayed chart list in Route Planner to the MBA Working Folio. This action deletes the existing Working Folio.

IMPORTANT

The concept of MBA is as follow:

- The user plans in advance the future route and calculates the necessary charts and publications.
- He orders in advance the required paper charts or non electronic publications to be sent to the departure port
- He saves the route and the associated lists of charts and publications
- Just before the departure he reloads the route and orders the missing electronic chart permits
- He saves the list of charts as Working Folios
- He sends the new Working Folios to MBA server to subscribe and get all necessary updates by pressing Order from each chart manager, for instance paper chart manager

ADDITIONAL FEATURES

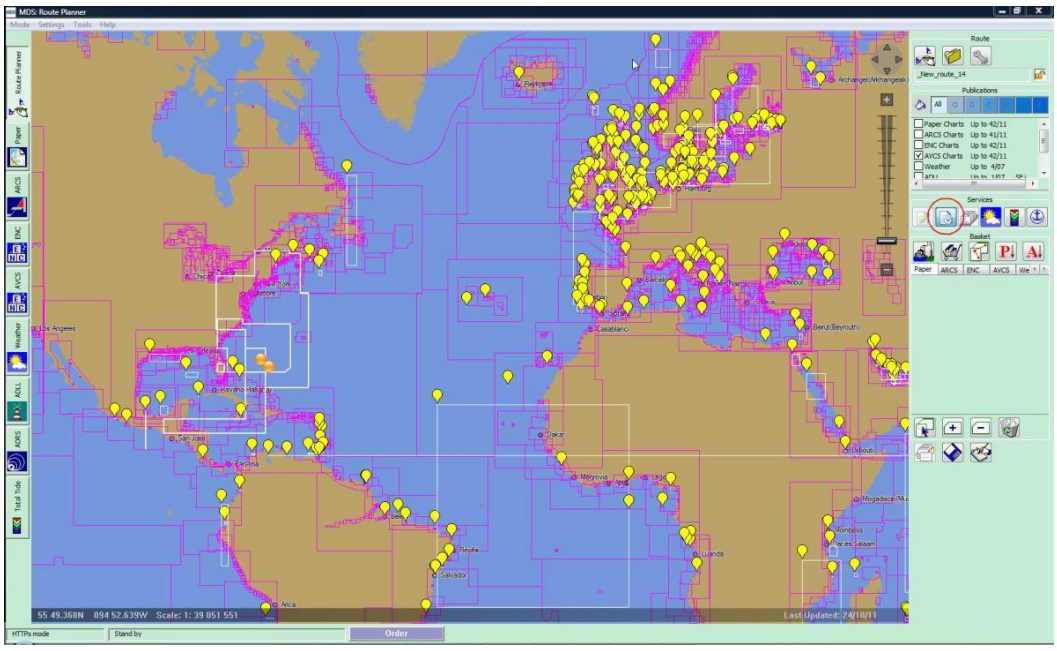
Additional information and features can be launched from "Services" bar, present in Route Planner window:

T&P LAYER

Activate the layer using button

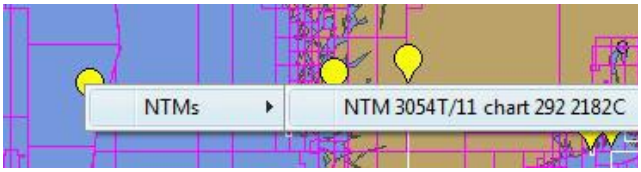
GENERAL

T&P layer (Temporary and Preliminary notices) is provided with Paper Chart subscription. Paper Charts weekly update is including T&P information, together with Paper Chart catalogue. The full catalogue of T&P for last week is also available on the server, and can be downloaded by menu "Tools/Download catalogues".



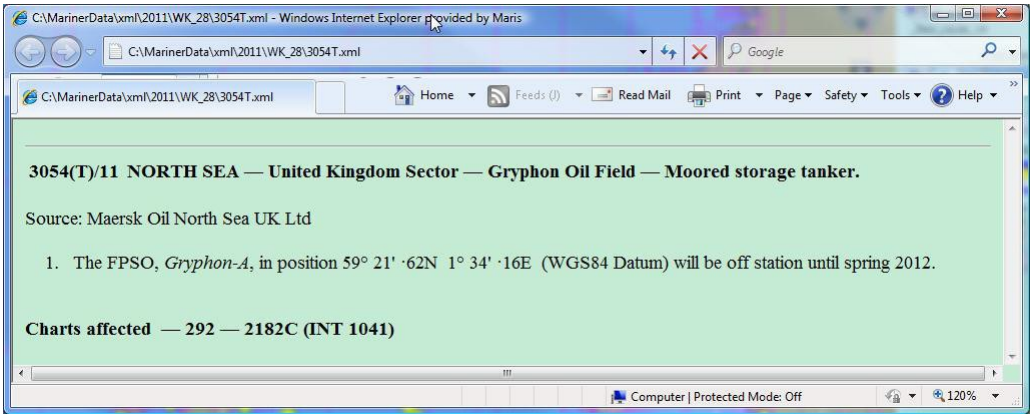
Let Cursor on the T&P Presence icon and use contextual menu to display T&P notice:

Exact coverage of T&P is shown with white boundary



NTM 3054T/11 available for chart 292 and 2182C

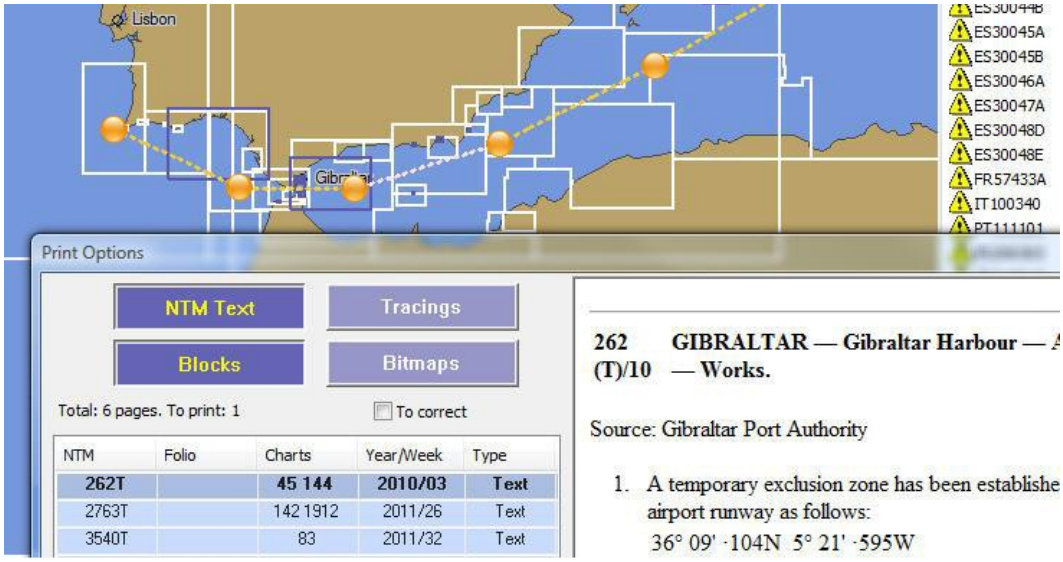
Select the T&P in the list, and full notice is displayed in a popup window :


C:\MarinerData\xml\2011\WK_28\3054T.xml - Windows Internet Explorer provided by Maris
C:\MarinerData\xml\2011\WK_28\3054T.xml
Home
Read Mail
Print
Page
Safety
Tools
Help
3054(T)/11 NORTH SEA — United Kingdom Sector — Gryphon Oil Field — Moored storage tanker.
Source: Maersk Oil North Sea UK Ltd
1. The FPSO, Gryphon-A, in position 59° 21' ·62N 1° 34' ·16E (WGS84 Datum) will be off station until spring 2012.
Charts affected — 292 — 2182C (INT 1041)
Computer | Protected Mode: Off
120%

T&P ALONG THE ROUTE

Right click on the route and select "**Get list of T&P**" to get list of T&P along the plotted route.

All T&P notices active along the route are displayed in a popup window.



VOYAGE PLAN

Press button in services bar.

PORTS DATABASE

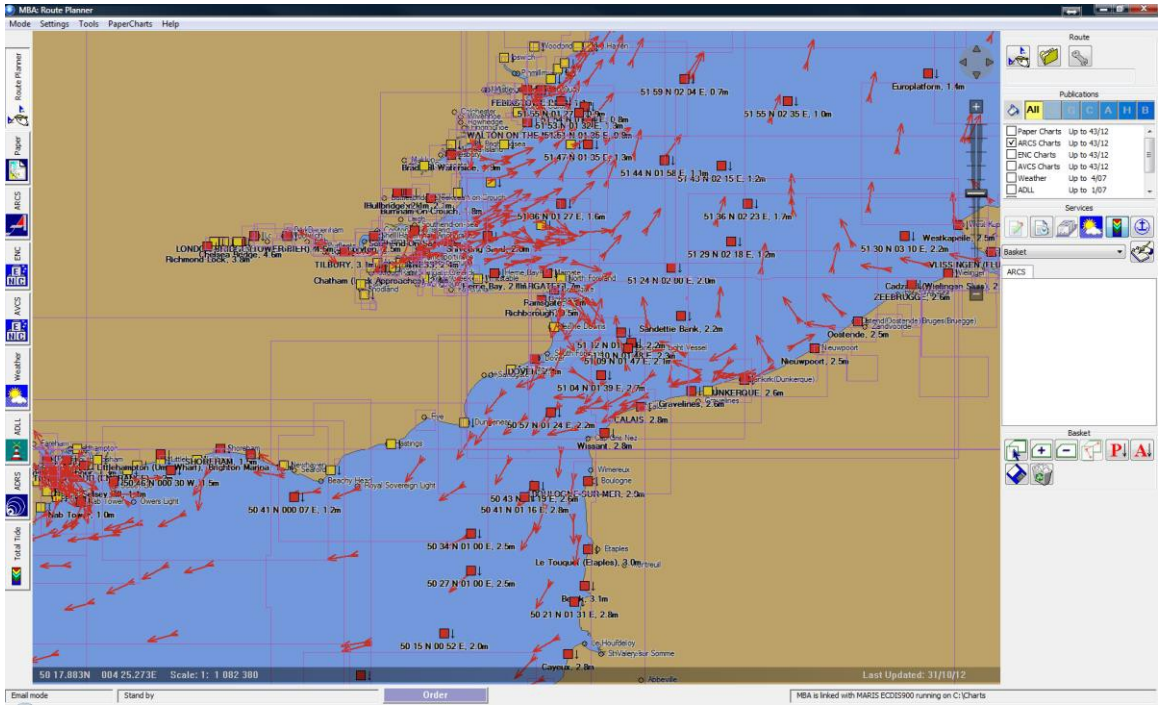
Show harbours : displays the word port database. Important: the icons are displayed only at scale bigger than 1/ 2 000 000.

WEATHER MANAGER

Press button in services bar.

TOTAL TIDE

Press button to Display Total Tide information.



Available when Total Tide is installed and activated Displayed only when scale larger than 1:1 000 000

ENC CHART MANAGER

All following paragraphs related to ENC are valid for AVCS, except PAYS mode wich is specific to ENC Primar.

Specificities of AVCS are described in AVCS Chart Manager.

GENERAL

The ENC Manager assists the user to manage and correct ENC chart database used by on board ECDIS. The MBA Server automatically emails every week to the ship the ENC catalogue update, the list of new issued ENC and the updates of ENC collection to make sure that the Navigator has the most up- to-date navigation information for his current voyage.

The ENC manager processes the data received from MBA Server and displays the latest up-to-date ENC catalogue. MBA server sends weekly update files which include all necessary information to maintain up-to-date the ENC database: new permits, eventually new chart editions and all updates for the charts on subscription.

MBA ENC manager works as follows:

- The Standing folio (i.e. the list of all ENC charts used in ECDIS) is built from ENC permit file used in ECDIS.
- The user selects the charts he wants to be weekly updated. This second list is called Working Folio and normally contains a list of all charts to be used on the current voyage. The second list may include any charts from the ***Standing folio***.

Every week, the ***MBA Server*** automatically sends an email containing changes to the ENC chart catalogue plus corrections applicable to ***Working Folio*** charts. See Status page .

The update email may also include:

- A list of new issued ENC cells.
- Eventually permits for new editions of charts on subscription
- The new editions of ENC cells if the user has selected to receive automatically new editions.
- Update for all the ENC cells on subscription

At any time the user can send a request to the server:

- To change the list of ENC cells (New WF) on subscription
- To order missing updates for some charts of the Standing Folio.
- To order new permits and download missing ENC on board.
- Check the status of the installed database against the latest ARCS data issued by BA.

Updates are sent directly to the ship or to another email address:

- If the MBA Manager is installed on a PC directly connected to the email server on board, the updates are received and processed automatically.

- If not, the updates received by email must be copied to a memory stick and transferred to the MBA PC.

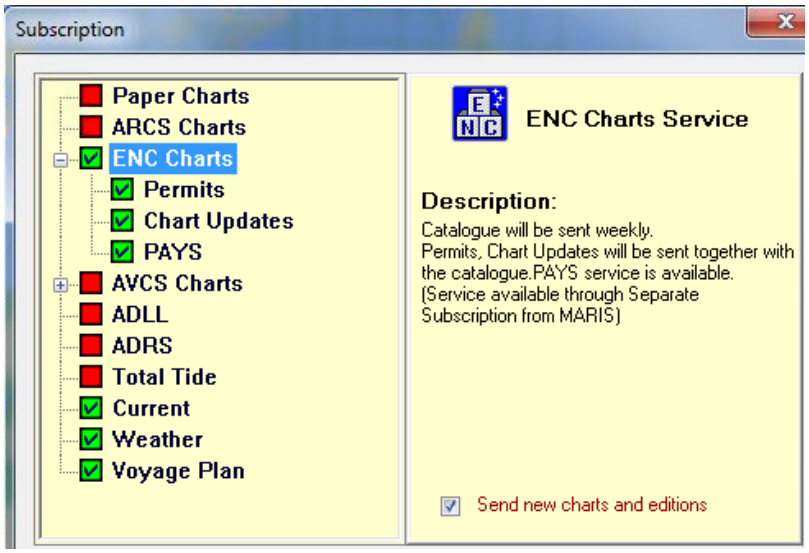
Received updates must be applied in ECDIS and the ENC databases in MBA and ECDIS must always be synchronized.

MBA allows to order new chart permits but also to renew the permits when expired.

PAYS Mode: MBA is able to provide the "Pays As You Sail" service, according to ENC Primar Recommendation, using combination of MBA and MARIS MCP server module.

ACTIVATION AND ENC SERVICES

From the last page of the subscription wizard (Menu "**Settings/Subscription"**) the user may select in the type of data to receive every week. Indeed, depending on the communication costs and the availability on board of the ENC cells on CD the user may want to reduce the amount of data to be sent.



1. When ENC Chart box is checked on weekly update of the **ENC Catalogue** is sent automatically to the ship.
2. To be able to order ENC permits and to receive ENC updates the user must toggle ON the services.
3. In the example, PAYS Mode is activated.

IMPORTANT: If MARIS ChartService has not received the order confirmation the check box "ENC Charts" is displayed in red and ENC service does not start.

VERY IMPORTANT

ENC updates may include new edition of ENC cells. Such update file (new ENC cell) may be a big file (up to 5 megas) and this may be a problem for the email service used on board.

If the user checks ON the box "Send new charts and charts edition" the new cells are included in the weekly updates. The user must check with the IT manager that the email services used on board allows transfer of big amount of data.

The user may postpone the sending of new ENC cell edition until he can use a cheaper communication system in harbor or until he receives ENC update CD.

When cheaper communication is available he can manually order the missing charts:

- To be sent on board
- Alternatively to be sent to a specific email address on shore (Port agent for example).

NEW EDITION OF ENC CELL

ENC cells are regularly reissued by the HOs and every week new editions are available.

Each ENC permit is valid for two editions of the ENC.

When an ENC is reissued either:

- The permit is valid for the new edition
- A new permit has to be reissued. Then MBA server creates a new permit and sends it automatically on board. **IMPORTANT:** MBA sends the new cell together with the weekly update ONLY if the option box "**Send new charts and charts edition**" is active. This option can be selected in the Registration wizard.

It is very important to note that an ENC cell is a file relatively big (Up to 5 Mgs) and automatic sending of new edition may cause a problem if there are file size limitations in the email service used on board.

If the new ENC cell is required for the current voyage the user must manually send a request of downloading.

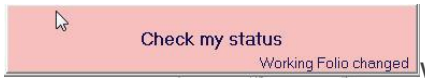
ENC STATUS PAGE

Select (left click) the ***Tab*** at the top of any page to access the ***Status Page***. This page shows the correction status of the ENC chart collection and the date of last update.

NB. If the MBA PC is connected to the internet, updating will be automatic. If not, the user must collect the weekly email on a memory stick and transfer this from the communications PC to the MBA PC manually.

Check My Status button: The button "Check My Status" can be:

- Green

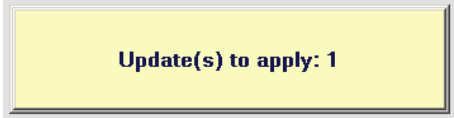
when no problems have been detected in MBA.
- Red 

when something has to be done. Pressing the button "**Check My Status**" sends a request to MBA server to synchronize MBA data on the server and on the client PC including charts catalogues updates.

STATUS BUTTONS

The colour and text on each button gives the user an instant indication of the status, whilst pressing the button (left clicking) opens the relevant page.

Every week the status of the ENC chart folios is updated automatically when the email from the MBA Manager is received and applied in ECDIS. The text and colour used on the buttons changes accordingly.

Update(s) to apply	
New Charts	
Missing Charts / Updates	

IMPORTANT

MBA may be running together with MARIS ECDIS900 on:

- The same PC than ECDIS900 or
- A PC connected by LAN to ECDIS900 or
- A PC NOT connected to ECDIS900 PC by LAN.
  MBA may also be used together with a **non MARIS ECDIS**.

Once received in MBA the updates will be applied according to settings (menu "**Settings/ECDIS link**".

Do not confuse:

- Update of ENC data information in MBA including catalogue update, permits (Master, Backup, Reserve), and all necessary data to update the ENC collection in ECDIS
- Update of ENC collection in ECDIS including installation of new permits and new charts and update of all existing charts.

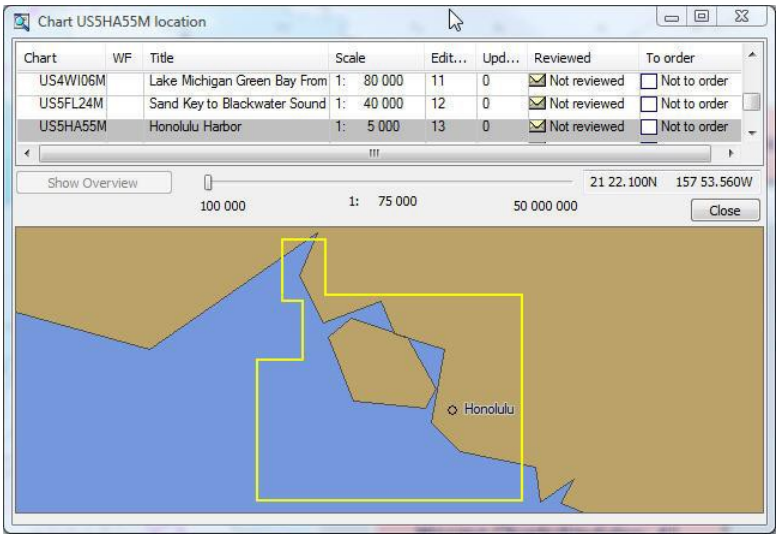
NEW ENC CHARTS

If the button New Chart in Status page is GREEN, there are no new or re- issued ENC review and the page will not open.

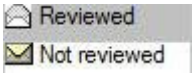
If the button is RED, it indicates that HOs have issued new edition of ENC cells. To review the list of new ENC, the user can open the page by left clicking the red button.

A list of new ENC and new editions is displayed together with the coverage of the individual chart.

NB. Both the vector chart and overview can be zoomed to show the location of the chart more clearly.



To confirm that a chart has been reviewed, the user must double left click the ***Envelope*** icon next to the text ***Not reviewed***. This text will then change to ***Reviewed :***



Then the number of new charts decreases by one

To add the chart to the ***Charts to Order*** folder the user must tick the box adjacent to the text ***Not to Order.*** A tick will appear in the box and the text will change to ***To Order.***

When the ***New Charts*** page is closed, the list of charts to order is added to the cumulative list of charts on the ***Charts to order*** page under the ***Order*** button. In addition the column "Basket" of the Chart Catalogue displays the status "In basket" for the selectedcharts.

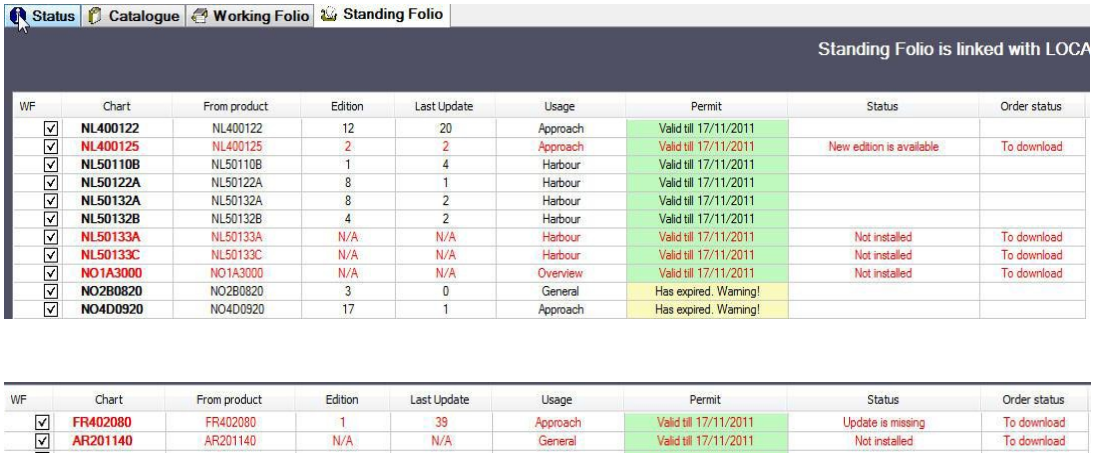
To place a chart order, the user must tick in the **"Order"** dialog the chart permits to be included in the order and push the ***Send*** button. The order is sent to MBA server. Column "Basket" of the Chart Catalogue displays the

status "ordered" for the selected chart.

MISSING CHARTS/UPDATES

When ECDIS and MBA are properly synchronized (See the paragraph "**Synchronization ECDIS – MBA**" for more details):

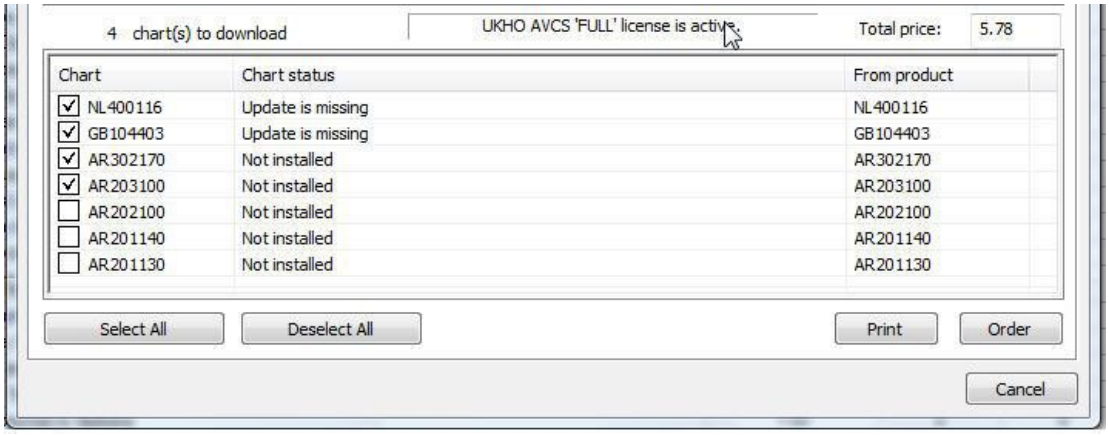
- MBA displays the number of Charts Not installed ad missing updates in the button "**Missing Charts/Updates**".
- **REMARK:** the status of the missing charts or updates ("Not Installed" or "Update is missing") is also displayed in the WF and SF pages:



WF	Chart	From product	Edition	Last Update	Usage	Permit	Status	Order status
☑	NL400122	NL400122	12	20	Approach	Valid till 17/11/2011		
☑	NL400125	NL400125	2	2	Approach	Valid till 17/11/2011	New edition is available	To download
☑	NL50110B	NL50110B	1	4	Harbour	Valid till 17/11/2011		
☑	NL50122A	NL50122A	8	1	Harbour	Valid till 17/11/2011		
☑	NL50132A	NL50132A	8	2	Harbour	Valid till 17/11/2011		
☑	NL50132B	NL50132B	4	2	Harbour	Valid till 17/11/2011		
☑	NL50133A	NL50133A	N/A	N/A	Harbour	Valid till 17/11/2011	Not installed	To download
☑	NL50133C	NL50133C	N/A	N/A	Harbour	Valid till 17/11/2011	Not installed	To download
☑	NO1A3000	NO1A3000	N/A	N/A	Overview	Valid till 17/11/2011	Not installed	To download
☑	NO2B0820	NO2B0820	3	0	General	Has expired. Warning!		
☑	NO4D0920	NO4D0920	17	1	Approach	Has expired. Warning!		

WF	Chart	From product	Edition	Last Update	Usage	Permit	Status	Order status
☑	FR402080	FR402080	1	39	Approach	Valid till 17/11/2011	Update is missing	To download
☑	AR201140	AR201140	N/A	N/A	General	Valid till 17/11/2011	Not installed	To download

Pressing the button "**Missing Charts/Updates**" displays the Order dialog which displays in the panel "**Chart to Download**" the missing data:



Toggle on the check box in front of the chart and press Order

When the list of ENC charts to download is selected, press **Order** to send a request to MBA server.

ENC CATALOGUE PAGE

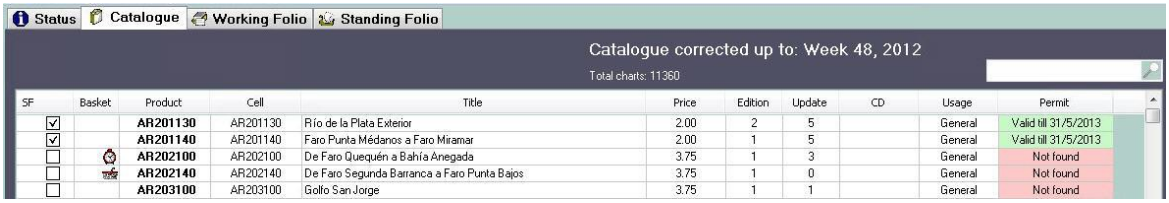
This page displays an up-to-date spreadsheet of ENC charts. The date of the last update is displayed at the top of this page.

IMPORTANT: Manual request for Catalogue update

MBA Manager receives a catalogue update every week and displays the week number. If the week number displayed on top of the status page is different from the current week number, the catalogue has not been updated. The reason could be lost email or connection problem.

If the user has any doubt and thinks an update is missing, he can send a request to compare the data on board with the latest available on the server by clicking the "***Check My Status***" button in the **Status** panel. The server checks the on board data against the latest data on the MBA server and emails back any missing data.

DISPLAY



SF	Basket	Product	Cell	Title	Price	Edition	Update	CD	Usage	Permit
☑		AR201130	AR201130	Río de la Plata Exterior	2.00	2	5		General	Valid till 31/5/2013
☑		AR201140	AR201140	Faro Punta Médanos a Faro Miramar	2.00	1	5		General	Valid till 31/5/2013
☐		AR202100	AR202100	De Faro Quequén a Bahía Anegada	3.75	1	3		General	Not found
☐		AR202140	AR202140	De Faro Segunda Barranca a Faro Punta Bajos	3.75	1	0		General	Not found
☐		AR203100	AR203100	Golfo San Jorge	3.75	1	1		General	Not found

The Catalogue page is displayed as a spreadsheet. Within the spreadsheet are listed all charts by Product and Cell :

- SF: box ticked ON if cell if the chart belongs to the "Standing Folio". A chart belongs to the SF ONLY if its valid permit has been received on board.
- Basket:

  Empty OR

  if cell is in basket (listed in "OrderPage") OR

  if product is ordered.

- Product: Cell Name, or Product name (set of cells, as SG0001)
  Click Arrow to expand product and get list of cells

▶ SG0001		Singapore waters and appr.

▼ SG0001		Singapore waters and appr.
	SG5C4034	East Jurong Channel, Pasir Panjang Terminal
	SG5C4044	Johor Strait - Eastern Part
	SG5C4038	Johor Strait - Western Part

- Cell Name / Title / Price: information for the cell

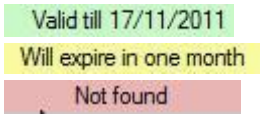
- Edition / Update: Last edition and Update available in the current Catalogue status displayed on the top of the page.

- Usage: Overview (1) General(2) Coastal(3) Approach(4) Harbour(5) Berthing(6) for Product: large (see usage at cell level when product is expanded)
- Permit Status:

Valid

Will Expire in 1 month

Not found



REMARK: Expired permits are automatically removed from the Standing Folio.

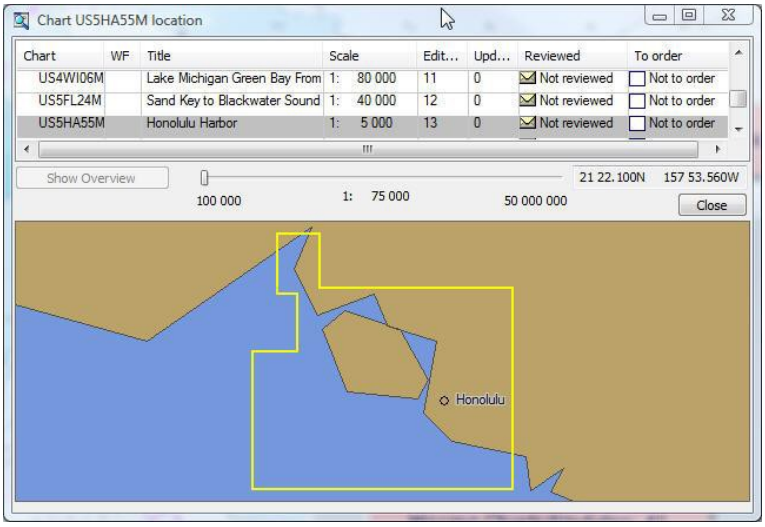
Within the spreadsheet the user may:

- Sort the spreadsheet content by l/clicking on the column headings.
- Order a permit for an ENC by R/Clicking on the ENC line and selecting **"Add to Basket"**.
- Check if the chart belongs to the Standing Folio in the first column.
- Check the location of the chart by R/Clicking on the ENC line and selecting **"Location"**.

ENC LOCATION

From the New Chart dialog or from the Catalogue page the location and the exact coverage of the selected chart can be checked graphically on the world map. A right click in any selected row on the Catalogue page opens a small pop-up box that allows the user to locate the selected chart.

Left click the word ***Location*** to display an overview of the chosen chart superimposed on a world map



Note that the exact coverage of the ENC is displayed

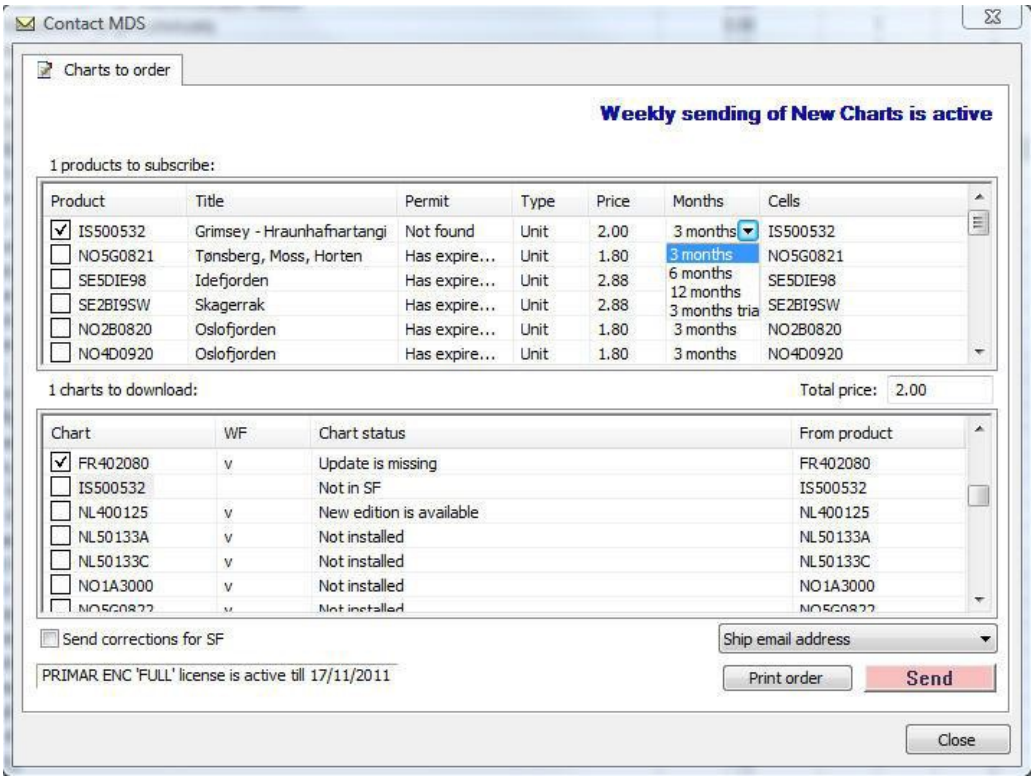
Zoom in and out by using the middle wheel of the mouse or the scale scroll bar above the chart.

ORDERING ENC PERMITS AND CELLS FROM CATALOGUE

The user must R/click on the name of the ENC required and then l/click the word ***Order permit*** to add a chart to the order list. This action changes the chart status to "**Order**" in the column **Order Status** and places the ENC on the ***Products to subscribe*** list on the ***Order*** dialog and the ENC it self on the ***Chart to download*** list.

To send the order to MBA server the user must l/click the ***Order*** button.

IMPORTANT: by default the check box in the Chart to download list is unchecked. If the ENC is not on board the user must toggle ON the check mark. Be aware that the file for one ENC is up to 1 Megas.


Contact MDS
Charts to order
Weekly sending of New Charts is active
1 products to subscribe:
Product Title Permit Type Price Months Cells
IS500532 Grimsey - Hraunhafnartangi Not found Unit 2.00 3 months IS500532
NO5G0821 Tønsberg, Moss, Horten Has expire... Unit 1.80 3 months NO5G0821
SE5DIE98 Idefjorden Has expire... Unit 2.88 6 months SE5DIE98
SE2BI9SW Skagerrak Has expire... Unit 2.88 12 months SE2BI9SW
NO2B0820 Oslofjorden Has expire... Unit 1.80 3 months tria NO2B0820
NO4D0920 Oslofjorden Has expire... Unit 1.80 3 months NO4D0920
1 charts to download:
Total price: 2.00
Chart WF Chart status From product
FR402080 v Update is missing FR402080
IS500532 Not in SF IS500532
NL400125 v New edition is available NL400125
NL50133A v Not installed NL50133A
NL50133C v Not installed NL50133C
NO1A3000 v Not installed NO1A3000
Send corrections for SF
Ship email address
PRIMAR ENC 'FULL' license is active till 17/11/2011
Print order
Send
Close

Permit for ENC unit IS5005332 is ordered for 3 months But only the missing updates for FR402080 will be downloaded

SINGLE ENC CELL AND PRODUCTS

Depending on the country a cell can be sold individually or as part of a Product. For example if the permit for the cell AU319147 is ordered from the catalogue the system orders the Product called AU4014 which includes this cells but also the cell AU319148. The ENC AU319147 cannot be ordered individually.

SUBSCRIPTION PERIOD

ENC permits can in general be ordered for a period of 3, 6, 9 or 12 months. However some countries such as Singapore do not allow subscription for less than 12 months. MBA always displays the available periods related to the country.

To change the subscription period for several ENCs at the same time proceed as follow:

- Select the ENCs by clicking successively on ENC names holding down the Ctrl key or by holding down the shift key or by using the mouseselection by rectangle.
- When the list of ENC is prepared hold down the Ctrl key or Shift key and L/Click in the column Months of one of the selected ENC.
- Select the period with the pop up menu.

RECEPTION ON BOARD OF THE ENC PERMITS

When the order is sent the status of the ordered charts changes to "**Ordered**" in the Catalogue window.

When the file containing the ENC permits is received on board and applied in ECDIS, the ENC databases in MBA and ECDIS must be properly synchronized.

ORDER ENC CHART

To be able to use an ENC cell in ECDIS it is necessary to:

- Have a valid chart permit
- Have the ENC cell on board and install it in ECDIS.
- Get the update of the chart and apply it in ECDIS.

1 The ENC permits can be ordered in real time in MBA and received by email.

2 An ENC sell is a file relatively big (up to 5 Megas).

a) If the ENC is on board (ENC base CD or update CD) it should not be downloaded from MBA server

b) If the cell is not on board it can be downloaded from the MBA server in real time.

c) If the ENC is not on board and not required for the current navigation the chart downloading can be postponed till a cheaper Internet connection is available (WIFI, 3G, Internet in port agent office.)

3 Updates for ENC on subscription are automatically sent by email on board every week and must be applied in ECDIS.

There are several ways to order ENC permits and charts in MBA manager:

- From the Catalogue page.
- From the New charts page.
- From the Route Planner

ORDER PROCESS

The procedure for ordering ENC permits and cell is as follows:

- Build a list of ENC permits to order.
- Press the **Order** button to open the **Order** dialog.
- Select the ENC to be downloaded.
- Select the period of subscription (3, 6, 9 or 12 months)
- Press the Send button

ORDER FOLLOW UP

All ordered ENC are displayed in Orange in the Catalogue. When the file containing the ENC permits is received on board (and applied when ECDIS is in use) the Standing Folio is updated with all ENC with valid permits.

ENC ORDER PROCESS

The procedure for ordering ENC permits and cells is as follows:

Build a list of ENC permits to order from New Chart dialog, from the catalogue or the Route Planner.

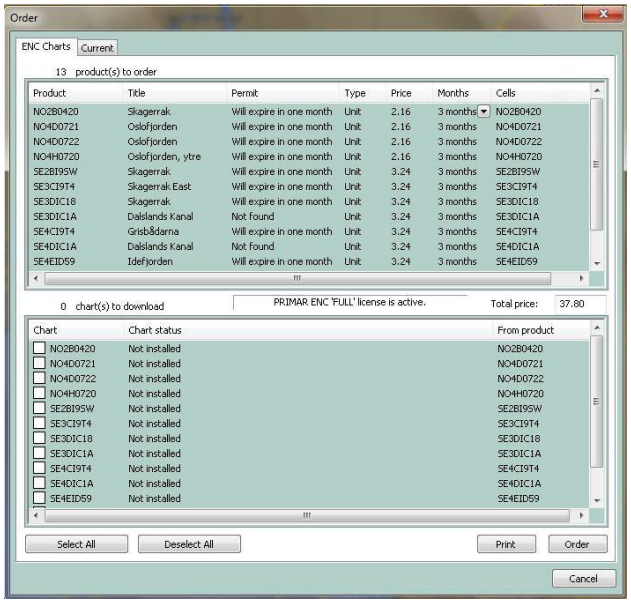
Press the **Order** button to open the **Order** dialog.

Select for each ENC the subscription period

Select the charts to be downloaded.

The replycontaining MBA updates is sent by default to the ship email address.

Press the **Order** button


Order
ENC Charts
Current
13 product(s) to order
Product
Title
Permit
Type
Price
Months
Cells
NO2B0420 Skagerrak Will expire in one month Unit 2.16 3 months NO2B0420
NO4D0721 Oslofjorden Will expire in one month Unit 2.16 3 months NO4D0721
NO4D0722 Oslofjorden Will expire in one month Unit 2.16 3 months NO4D0722
NO4H0720 Oslofjorden, ytre Will expire in one month Unit 2.16 3 months NO4H0720
SE2BI9SW Skagerrak Will expire in one month Unit 3.24 3 months SE2BI9SW
SE3CI9T4 Skagerrak East Will expire in one month Unit 3.24 3 months SE3CI9T4
SE3DIC18 Skagerrak Will expire in one month Unit 3.24 3 months SE3DIC18
SE3DIC1A Dalslands Kanal Not found Unit 3.24 3 months SE3DIC1A
SE4CI9T4 Grisbådarna Will expire in one month Unit 3.24 3 months SE4CI9T4
SE4DIC1A Dalslands Kanal Not found Unit 3.24 3 months SE4DIC1A
SE4EID59 Idefjorden Will expire in one month Unit 3.24 3 months SE4EID59
0 chart(s) to download
PRIMAR ENC 'FULL' license is active.
Total price: 37.80
Chart
Chart status
From product
Select All
Deselect All
Print
Order
Cancel

Permits including the products are ordered.

Price will be 37.80 US dollars.

Charts should be installed from the CD after the permit are received

Order missing Updates from the server when necessary.

Reply email address

The reply containing MBA updates is sent by default to the ship email address. To receive the reply to another address selects the new recipient in the list activated by pushing the small arrow.

When the order is sent the user can follow up the order and on reception the Standing Folio will be updated. Then the update must be applied in ECDIS and MBA and ECDIS ENC databases must be synchronized.

In order to optimize the communication costs the user MUST install the ENC charts from the ENC CDs available on board before requesting to download missing ENC cells.

RENEW EXISTING ENC PERMITS

One month before the expiration date of an ENC permit, the ***Permit Order Status*** is changed to "**To order**" in the Catalogue, SF and WF pages and the ***Permit*** column displays in yellow "**Will expire in one month**"

Chart	From product	Edition	Last Update	Usage	Permit
GB300734	GB300734	1	5	Coastal	Valid till 31/12/2011
AR201130	AR201130	N/A	N/A	General	Will expire in one month

The ENC is then added to the list of permits to order in the "**Order"** dialog.

To change the period for several ENCs, select the ENC, keep the key Shift down and click the small arrow

RENEWAL

To renew the permit it is necessary to select in the "**Order"** dialog the permit to renew by toggle ON the check box displayed in front of each ENC and select the period of subscription. Then press the button **Order.**

IMPORTANT

After the new permits are received, the ENC which have not been renewed

will remained displayed in yellow in Catalogue, WF and SF pages until the expiration date.

ENC ORDER FOLLOW UP

All ordered ENC permits are displayed with “Clock” icon in column “Basket” in the Catalogue page.

Catalogue corrected up to: Week 48, 2012

Total charts: 11360

SF	Basket	Product	Cell	Title	Price	Edition	Update	CD	Usage	Permit
☐		**AR202140**	AR202140	De Faro Segunda Barranca a Faro Punta Bajos	3.75	1	0		General	Not found
☐		**AR202100**	AR202100	De Faro Quequén a Bahía Anegada	3.75	1	3		General	Not found
☑		**AR201130**	AR201130	Río de la Plata Exterior	2.00	2	5		General	Valid till 31/5/2013
☑		**AR201140**	AR201140	Faro Punta Médanos a Faro Miramar	2.00	1	5		General	Valid till 31/5/2013

ENC Catalogue Page

- When the permits are received on board they must be installed in ECDIS.
- The ENC cells must be installed in ECDIS from ENC base CDs or CD update.

MBA AND ECDIS900

- MBA and ECDIS900 ENC databases must be synchronized.
- After synchronization, MBA can display the status of the ENC cells i.e. if the ENC are installed on not in ECDIS900.

Standing Folio is linked with C:\Charts MARIS ECDIS 'ChartDB_ folder

Chart	From product	Edition	Last U...	Usage	Permit	Status	Order status	Replacement
SE4EI9T9		N/A	N/A	Approach	Will expire in one month	Canceled		
RU3ORL20	RU3ORL20	3	4	Coastal	Valid till 28/2/2013	Up to date		
NO6M1109	NO6M1109	N/A	N/A	Berthing	Valid till 28/2/2013	Not installed	To download	
NO5E1011	NO5E1011	N/A	N/A	Harbour	Will expire in one month	Not installed	To download	
NO4K1109	NO4K1109	3	0	Approach	Valid till 28/2/2013	Up to date		
NO4Y0719		N/A	N/A	Approach	Will expire in one month	Canceled		
DE110000	DE110000	3	2	Overview	Valid till 31/3/2013	Up to date		
NO4Z0719		N/A	N/A	Approach	Will expire in one month	Canceled		
US2GC12M	US2GC12M	42	2	General	Valid till 30/4/2013	Up to date		
IN3255AM		N/A	N/A	Coastal	Valid till 31/1/2013	Canceled		

ENC Standing Folio page

PAYS MODE

When PAYS service is activated in MCP, all available permits for PAYS are sent to the user, allowing corresponding cells to be installed in ECDIS for Voyage Planning purpose.

The ENC Standing Folio is then including all Cells with permit available in PAYS collection, plus other permits ordered independently (Like Indian cell) which are not in the PAYS collection.

In PAYS mode, the Working Folio is automatically defined, based on Route activated in PAYS window, and remaining charts to cross until the end of the voyage. Weekly Updates data are sent for the WF as usual. The Working Folio is locked, and cannot be changed manually.

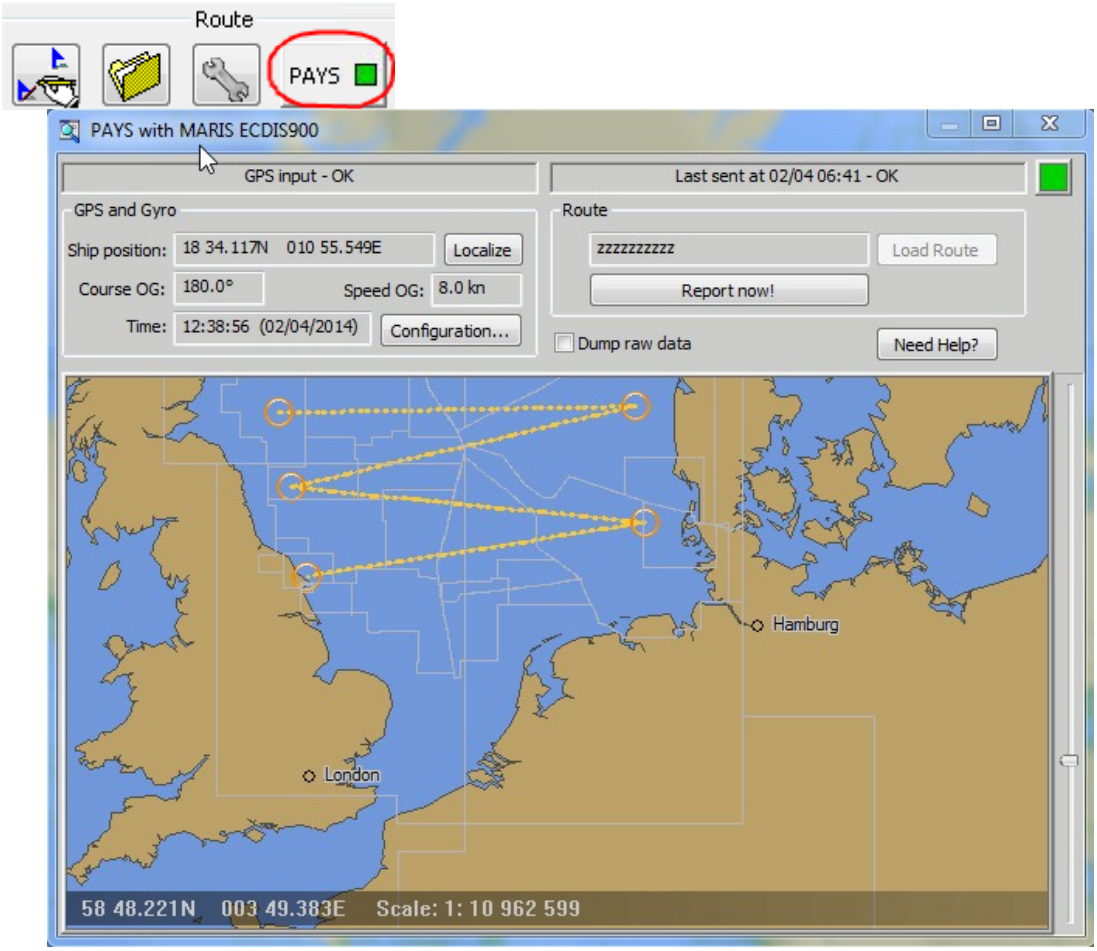
When MBA is linked MARIS ECDIS900, the active route in ECDIS is automatically received from the Monitoring ECDIS.

The 2 best scale charts crossed by the track report are invoiced, as specified. Permits are valid for 3 months.

The service will keep activated as long as Track report is sent regularly to the server.

OVERVIEW

Press PAYS button to open PAYS Window



MBA is linked to MARIS ECDIS900: the route is automatically received from ECDIS The button "Load Route" is deactivated.

Button "Report now!" can be pushed any time to send the Track History report. This report is sent automatically every 6 hours by default. Button can be used for test purpose after installation.

PAYS STATUS

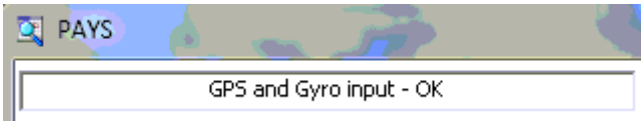
On the top right of Route Planner and PAYS window, the button is giving the PAYS Status as following:

Status color	*Signification*
Blue	PAYS is not activated
Green	All parameters OK, Track report sent to the server and acknowledged, a route is active
Yellow	Minor problem, Heading or SOG missing), no route loaded, report and waiting for server acknowledgement.

Red	Major problem: No position, impossible to send track report

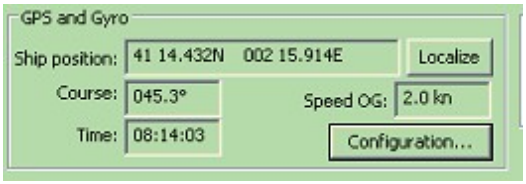
GPS SETTING, TRACK REPORTING

The Track is built out of GPS position acquired and processed by MBA PAYS module every 15 minutes; Gyro value is also reported.



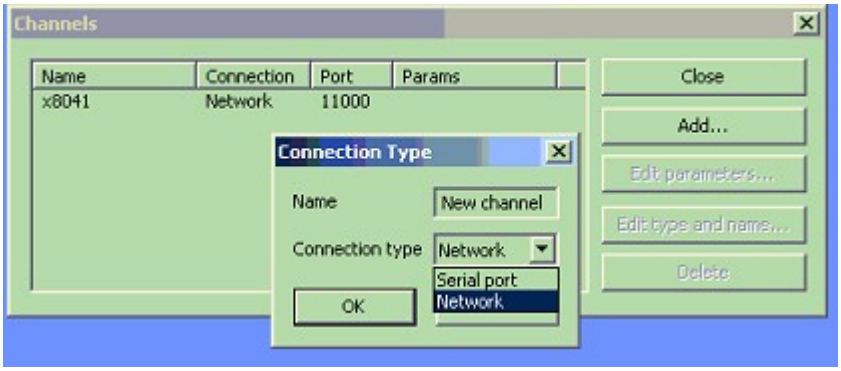
Track history is sent to MCP server every 6 hours for charts calculation under the track, and used cells permit ordering according to PAYS rules.

GPS AND GYRO DETAILS AND CONFIGURATION



Localize: center the chart area on ship position

Configuration**:**



Add sensor to get necessary NMEA raw data input: GPS Position: mandatory

Heading and Speed: preferably

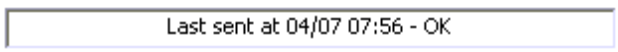
There is 2 possibilities of input: Serial or Network

When connected to MARIS ECDIS, it is recommended to use “Network”

1/ On relevant sensor in Sensor Monitor: Route raw data to a IP port (11000 in example) 2/ add a channel (11000 as in example above) to receive data.

(refer to MBA–PAYS installation Manual for more details)

Track Report Status



Date and Time for the last connection, and status OK

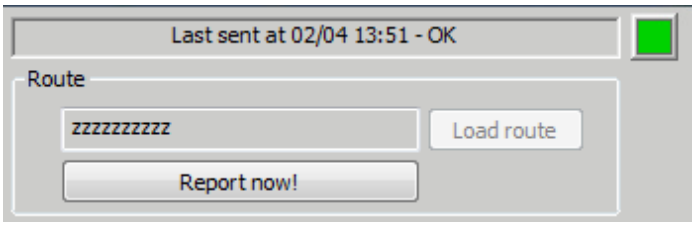
LOADED ROUTE, WORKING FOLIO.

The loaded route corresponds to the "Activated Route" in ECDIS. The ENC Working Folio is automatically setup, corresponding to the charts under the loaded route, based on the parameter "Product selection Zone" (default value 24NM).

Loaded route and new WF are sent immediately to MCP server in order to get automatically missing Charts and Updates for the route, at once in the answer of the request, or later when receiving the weekly update for the Working Folio.

CASE OF MBA LINKED TO "MARIS ECDIS900"

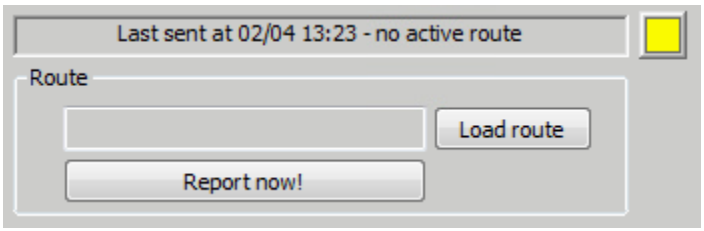
The Activated route, defined on the ECDIS Monitoring station, is automatically loaded in the PAYS window, at once when route is activated, or within 1 minute after MBA is connected to ECDIS LAN.

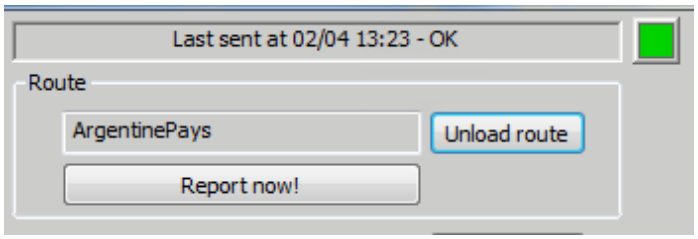


Route is loaded, it is sent to MCP server together with WF.

CASE OF MBA LINKED TO "OTHER ECDIS"

The route has to be loaded manually; press load and use the browser to select the route.

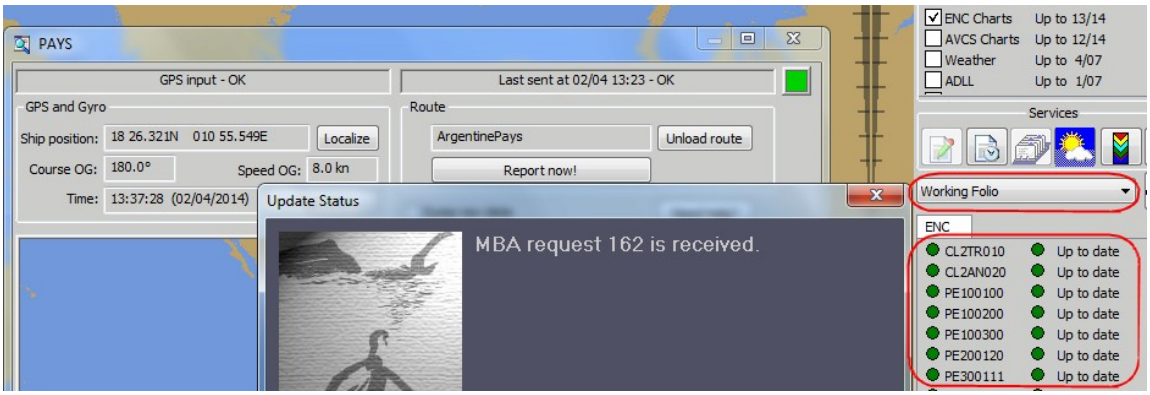




Route is loaded, it is sent to MCP server together with WF.

LOADED ROUTE SENT TO MCP

In both cases, as soon as a new route is loaded in PAYS windows, a request is sent to MCP server, in order to send the Activated route and the corresponding Working Folio to the server, and to get missing Charts and Updates for ENC charts along the routes.



After route activation, Request is sent and answer is including Missing Charts and Updates along the route.

When the route is activated, the Working folio will be sent to the server and the weekly update function will send update for the Charts under the route. After each track report is sent, the WF is adjusted with remaining Chart from last position reported, until the end of the route.

AVCS CHART MANAGER

All paragraphs related to ENC are valid for AVCS. Specificities of AVCS are described in this chapter.

GENERAL

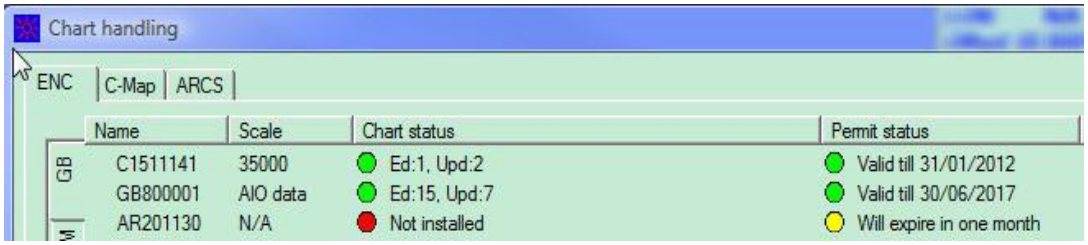
The Admiralty Vector Chart Service (AVCS) brings together Electronic Navigational Charts (ENCs) from national Hydrographic offices around the world and new ENC coverage produced by UKHO in co-operation with Foreign Governments to provide comprehensive, official, worldwide coverage.

AVCS contains only ENC data that meets SOLAS Carriage Requirements for use within Electronic Chart Display and Information Systems (ECDIS).

Electronic Navigational Charts (ENCs) are digital vector charts produced to the International Hydrographic Organization's (IHO's) standards (S57 Version 3.1 and ENC Product Specification). They are referred to World Geodetic System 1984 Datum (WGS84) and are regularly updated with official update information distributed digitally.

Hydrographic offices do not take any responsibility for the accuracy or reliability of privately produced, unofficial charts.

AVCS are present in ECDIS GB tab.



layer is included in a unique worldwide cell GB800001. AIO Data will be displayed in areas covered by AVCS Cells issued by UKHO.

Permit for AIO cell GB800001 will be AUTOMATICALLY included in AVCS holding sent as soon as one AVCS cell in the holding (UKHO License activated)

Remark: As for other Cells, in order to reduce communication cost, it is recommended to install AIO cell in ECDIS from AIO base CD; Order missing update when all update present onboard were installed.

GETTING AIO UPDATE

AIO Update is handled the same way as any AVCS cell, meaning that weekly update for GB800001 cell will be received as soon as the cell is present in the Working Folio.

This cell does not appear in the Catalogue or the as it is not a paid product, but visible in Standing Folio and Working folio with the synchronized status.

Getting AIO Update is possible either

- Either by ordering in MBA in AVCS order page
- Either using weekly Update (GB800001 is in WF)

AIO update in the list of missing update in AVCS order page

ARCS CHART MANAGER

GENERAL

The ARCS Manager assists the user to manage and correct ARCS chart database used by ECDIS on board. The MBA Server automatically emails to the ship the catalogue update, new chart list and relevant ARCS updates every week to make sure that the Navigator has the most up-to-date navigation information for his current voyage.

The MBA ARCS manager processes the data received from the Server and displays the latest up-to-date chart catalogue . MBA server sends weekly update files which include all necessary information to maintain up-to-date the ARCS database: new permits, eventually new chart editions and all ARCS updates for the charts on subscription.

MBA ARCS manager works as follows:

- The standing folio (i.e. the list of all ARCS charts used in ECDIS) is built from the permit file received from UKHO.
- The user selects the charts he wants to be weekly updated. This second list is called Working Folio and normally contains a list of all charts to be used on the current voyage. The second list may include any charts from the ***Standing folio***.

Every week, the ***MBA Server*** automatically sends an email containing changes to the ARCS chart catalogue plus corrections applicable to ***Working Folio*** charts. See Status page.

The update email may also include:

- A list of new issued ARCS charts together with a thumbnail bitmap for each.
- Eventually permits for new editions of charts on subscription
- The new edition of the charts if the user has selected to receive automatically new editions.
- Update tiles for all the ARCS charts on subscription

At any time the user can send a request to the server:

- To change the list of ARCS charts on subscription
- To order missing updates for some charts of the Standing Folio.
- To order new permits and download missing ARCS charts on board.
- Check the status of the installed database against the latest ARCS data issued by BA.

Updates are sent directly to the ship or to another email address:

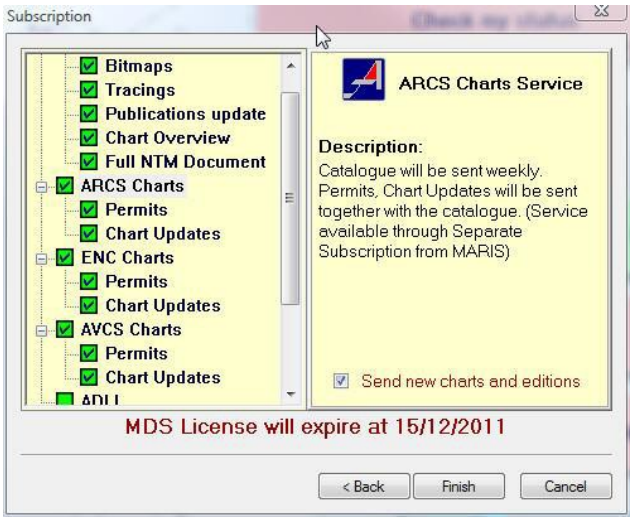
- If the MBA Manager is installed on a PC directly connected to the email server on board, the updates are received and processed automatically.
- If not, the updates received by email must be copied to a memory stick and transferred to the MBA PC.

Received updates must be applied in ECDIS900 and the ARCS databases in MBA and ECDIS900 must always be synchronized.

MBA allows to order new chart permits but also to renew the permits when expired.

REGISTRATION AND ARCS SERVICES

From the last page of the subscription wizard (Accessible by clicking the button **Admin**) the user may select in the type of data to receive every week. Indeed, depending on the communication costs and the availability on board of the ARCS charts on CD the user may want to reduce the amount of data to be sent.



1. When ARCS Chart box is checked ON, weekly update of the catalogue is sent automatically to the ship.
2. To be able to order ARCS permits and to receive ARCS updates the user must toggle ON the services **and contact ChartService in Maris AS to confirm the subscription** to ARCS service by signing a contract. Then in MBA application two options are available:
   a) When the box Permits is checked ON, the user automatically receives weekly permits for the new edition of the cells of his collection on subscription. He may also order ARCS permits in real time.
   b) When the box Chart update is checked ON all chart updates related to the list of chart on subscription (Working Folio) are sent to the ship.

IMPORTANT: If MARIS ChartService has not received the order confirmation the check box "ARCS Charts" is displayed in red and the ARCS service does not start.

VERY IMPORTANT

ARCS updates may include new edition of charts. Such update file (new ARCS chart) may be a big file (Up to 3 Mg).

If the user checks ON the box "Send new charts and charts edition" the new charts are included in the weekly updates. The user must check with the IT manager that the email services used on board allows transfer of big amount of data.

The user may postpone the sending of new chart edition until he can use a cheaper communication system in harbour or until he receives ARCS update CD.

When cheaper communication is available he can manually order the missing charts:

- To be sent on board or
- Alternatively to be sent to a specific email address on shore (Port agent for example).

NEW EDITION OF CHARTS

ARCS charts are regularly reissued by the HOs and every week new editions are available.

When a new edition is reissued the existing chart permit is no more valid and MBA server creates and sends on board the new permit.

But MBA server sends automatically the new chart together with the weekly update **ONLY** if the option box "**Send new charts and charts edition**" is active. This option can be selected in the Subscription wizard and any changes in the service must be sent to the server to be activated.

It is very important to note that an ARCS chart is a file relatively big (2 Mgs) and automatic sending of new edition may cause a problem if there are file size limitations in the email service used on board.

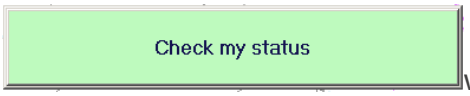
If the option is inactive the user must manually send a request of downloading when the chart is required on board.

ARCS STATUS PAGE

Select (left click) the ***Tab*** at the top of any page to access the ***Status Page***. This page shows the correction status of the ARCS chart collection and the date of last update.

NB. If the MBA PC is connected to the internet, updating will be automatic. If not, the user must collect the weekly email on a memory stick and transfer this from the communications PC to the MBA PC manually.

Check My Status button: The button "Check My Status" can be:

- Green 

when no problems have been detected in MBA.
- Red

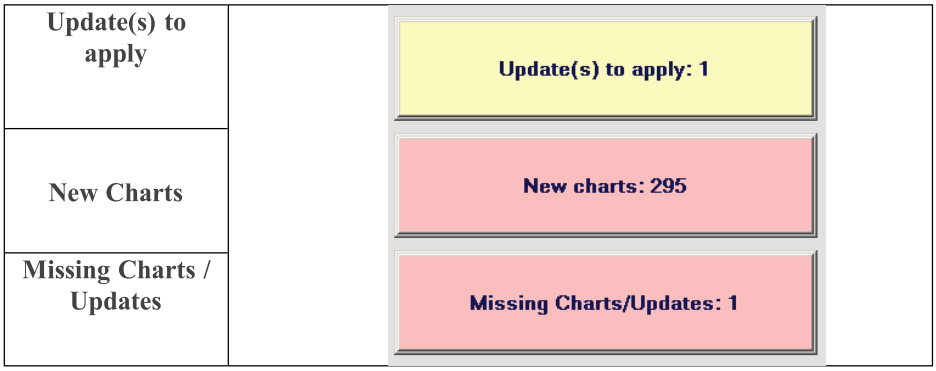
when something has to be done.

Pressing the button "**Check My Status**" sends a request to MBA server to synchronize MBA data on the server and on the client PC including charts catalogues updates.

STATUS BUTTONS

The color and text on each button gives the user an instant indication of the status, whilst pressing the button (left clicking) opens the relevant page.

Every week the status of the ARCS chart folios is updated automatically when the email from the MBA Manager is received and applied in ECDIS. The text and color used on the buttons changes accordingly.



IMPORTANT

MBA may be running on:

- The same PC than ECDIS900 or
- A PC connected by LAN to ECDIS900 or
- A PC NOT connected to ECDIS900 PC by LAN.

MBA may also be used together with a **non MARIS ECDIS**.

Once received in MBA the updates have to be applied in ECDIS. See Apply ARCS updates.

Do not confuse:

- Update of ARCS data information in MBA including catalogue update and all necessary data to update the ARCS collection in ECDIS
- Update of ARCS collection in ECDIS including installation of new permits and new charts and update of all existing charts.

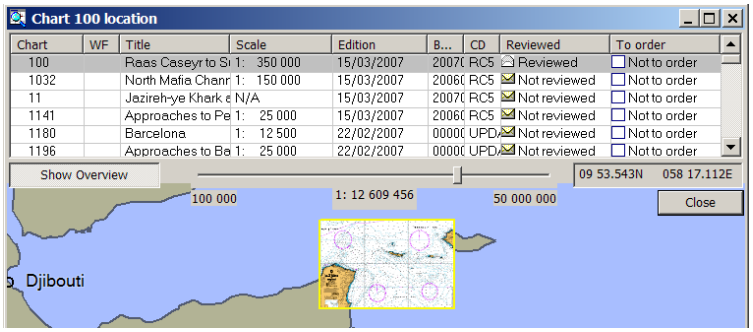
NEW CHARTS

If the button New Chart in Status page is GREEN, there are no new or re- issued charts to review and the page will not open.

If the button is RED, it indicates that the UKHO has issued new edition ARCS charts. To review the list of new charts, the user can open the page by left clicking the red button "New Charts: xx".

A list of new charts and new editions is displayed together with an overview of the individual chart.

NB. Both the vector chart and overview can be zoomed to show the location of the chart more clearly.



To confirm that a chart has been reviewed, the user must double left click the ***Envelope*** icon next to the text ***Not reviewed***. This text will then change to ***Reviewed.*** Then the number of new charts decreases by one.

To add the chart to the ***Charts to Order*** folder the user must tick the box adjacent to the text ***Not to Order.*** A tick will appear in the box and the text will change to ***To Order.***

When the ***New Charts*** page is closed, the list of charts to order is added to the cumulative list of charts on the ***Charts to order*** page under the ***Order*** button. In addition the column "Order Status" of the Chart Catalogue displays the status To Order for the selected charts.

To place a chart order, the user must tick in the **Order** dialog the chart permits to be included in the order and push the ***Send*** button. The order is emailed to MBA server (or placed on the memory stick). Then the status "**To Order**" of the selected charts changes to "**Ordered**" in the Catalogue page.

SF	Basket	Chart	Edition	Scale	Type	Last Update	Last NtM	Permit	CD	Title
☐		2	20110922	1: 1 500 000	Chart	20110929	4386/11	Not found	RC2	British Isles
☐		3	20110310	1: 360 000	Chart		4575/10	Not found	RC5	Chagos Archipelago

Chart 2 and 3 ordered (Clock symbol)

MISSING CHARTS/UPDATES

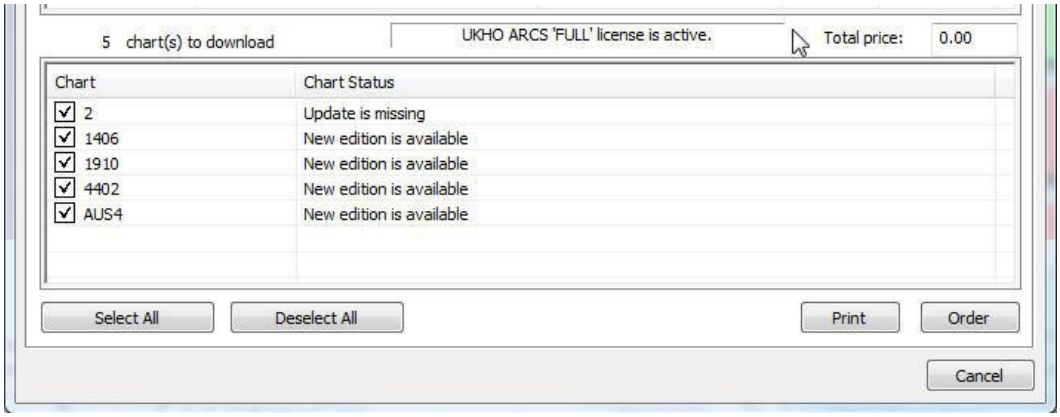
When ECDIS and MBA are properly synchronized (See the paragraph "**Synchronization ECDIS – MBA**" for more details):

- MBA displays the number of ARCS Charts Not installed ad missing updates in the button "**Missing Charts/Updates**".
- REMARK: the status of the missing charts or updates ("Not Installed" or "Update is missing") is also displayed in the WF and SF pages:

WF	Chart	Edition	Scale	Type	Permit	Last NM	CD	Title	Status	Chart Order Status
☐	100	N/A	1: 350 000	Chart	Valid	N/A	RC5	Raas Caseyr to Suqutra	Not installed	Ordered
☑	1406	20110623	1: 250 000	Chart	Valid	3957/11	RC1	Dover and Calais to Orford Ness and Scheveningen		

Status: Not installed or Update is missing

Pressing the button "**Missing Charts/Updates**" displays the Order dialog which displays in the panel "**Chart to Download**" the missing data:



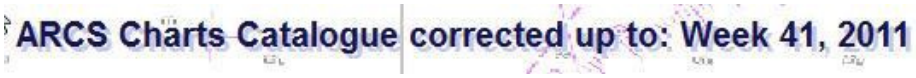
Toggle on the check box in front of the chart and press Order

When the list of ARCS charts to download is selected press Order to send a request to MBA server.

In the SF and WF pages, the “Chart order status” is changed to "Ordered".

ARCS CHART CATALOGUE

This page displays an up-to-date spreadsheet of ARCS charts. The date of the last update is displayed at the top of this page.

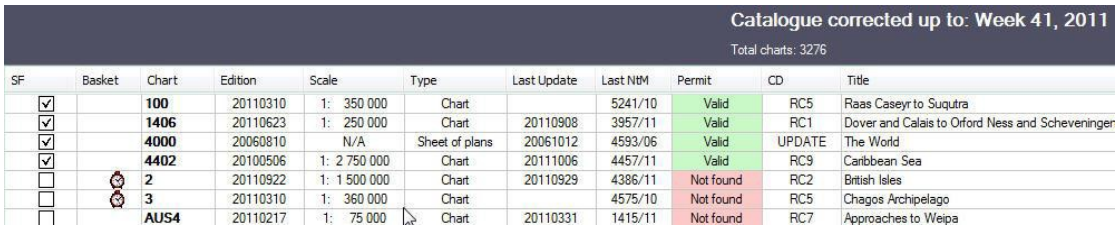


IMPORTANT: Manual request for Catalogue update

MBA Manager receives a catalogue update every week and displays the week number. If the week number displayed on top of the status page is different from the current week number, the catalogue has not been updated. The reason could be lost email or connection problem.

If the user has any doubt and thinks an update is missing, he can send a request to compare the data on board with the latest available on the server by clicking the "***Check My Status"*** button in the **Status** panel. The server checks the on board data against the latest data on the MBA server and emails back any missing data.

DISPLAY



SF	Basket	Chart	Edition	Scale	Type	Last Update	Last NtM	Permit	CD	Title
☑		100	20110310	1: 350 000	Chart		5241/10	Valid	RC5	Raas Caseyr to Suqutra
☑		1406	20110623	1: 250 000	Chart	20110908	3957/11	Valid	RC1	Dover and Calais to Orford Ness and Scheveninger
☑		4000	20060810	N/A	Sheet of plans	20061012	4593/06	Valid	UPDATE	The World
☑		4402	20100506	1: 2 750 000	Chart	20111006	4457/11	Valid	RC9	Caribbean Sea
☐		2	20110922	1: 1 500 000	Chart	20110929	4386/11	Not found	RC2	British Isles
☐		3	20110310	1: 360 000	Chart		4575/10	Not found	RC5	Chagos Archipelago
☐		AUS4	20110217	1: 75 000	Chart	20110331	1415/11	Not found	RC7	Approaches to Weipa

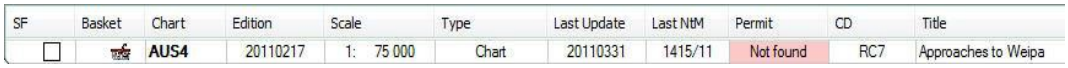
The Catalogue page is displayed as a spreadsheet. Within the spreadsheet the user may:

- Sort the spreadsheet content by l/clicking on the column headings.
- Order a permit for a chart by adding the chart into the basket by R/Clicking on the chart line and selecting **“Add to basket”** : symbol Basket displayed in Basket column

- Check ordered permits chart : “Clock symbol in “basket” column.
- In the first column (headed SF) a tick is placed alongside each chart if the chart belongs to the Standing Folio. A chart belongs to the SF ONLY if its valid permit has been received on board
- Check the location of the chart.

The column “**Basket**” shows order status for the chart

- symbol means that Chart is added to the basket and that the user wants to order the chart (order is sent from the **Order** dialog)



SF	Basket	Chart	Edition	Scale	Type	Last Update	Last NtM	Permit	CD	Title
☐		AUS4	20110217	1: 75 000	Chart	20110331	1415/11	Not found	RC7	Approaches to Weipa

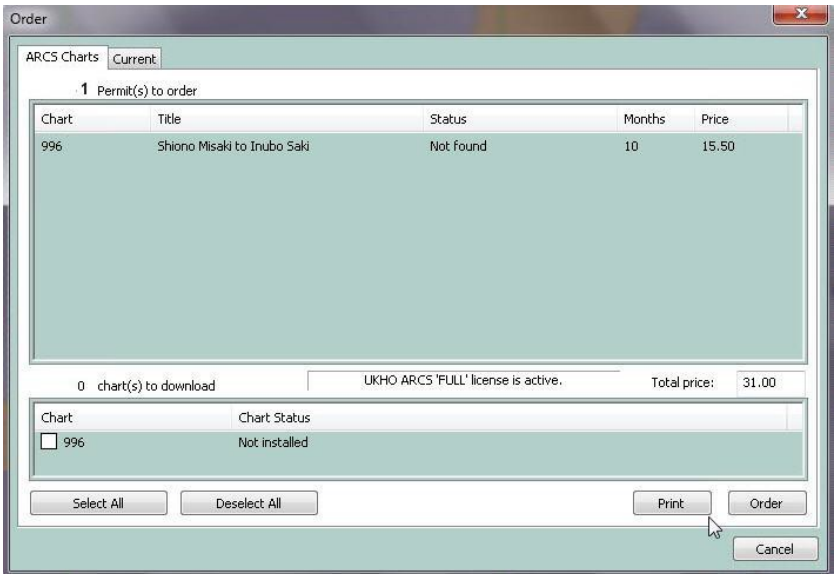
- symbol indicates that the order for the selected chart has been sent

☐		2	20110922	1: 1 500 000	Chart	20110929	4386/11	Not found	RC2	British Isles

ORDERING ARCS PERMITS AND CHARTS FROM CATALOGUE

The user must R/click on the name of the chart required and then l/click the word ***Add to basket*** to add a chart to the order list. This action changes the chart status in the column “Basket” (symbol basket) and places the chart permit on the ***Permits to subscribe*** list on the ***Order*** dialog and the chart it self on the ***Chart to download*** list.

To send the order to MBA server the user must l/click the ***Order*** button. ***IMPORTANT***: by default the check box in the Chart to download list is unchecked. If the chart is not on board the user must toggle on the check mark. Be aware that the file for one chart is about 2 Megas.



Permit for Chart 996 is ordered.

Chart and update for 996 are not ordered.

The email is sent (or transferred to a memory stick) by pressing Send in the Order dialog.

RECEPTION ON BOARD OF THE ARCS PERMITS

When the order is sent the status of the ordered charts changes to "**Clock**" symbol in the Catalogue window.

When the file containing the ARCS chart permits is received on board and applied in ECDIS the ARCS database in MBA and ECDIS900 must be properly synchronized.

ORDER ARCS CHART

To be able to use an ARCS chart in ECDIS it is necessary to:

- Have a valid chart permit
- Have the ARCS chart on board and install it in ECDIS.
- Get the update of the chart and apply it in ECDIS.

1. The chart permits can be ordered in real time in MBA and received by email.
2. An ARCS chart is a file relatively big (up to 2 Megas).
   a) If the chart is on board (ARCS base CD or update CD) it should not be downloaded from MBA server
   b) If the chart is not on board it can be downloaded from the MBA server in real time.
   c) If the chart is not on board and not required for the current navigation the chart downloading can be postponed till a cheaper Internet connection is available (WIFI, 3G, Internet in port agent office.)
3. Updates for ARCS charts on subscription are automatically sent by email on board every week and must be applied in ECDIS.

There are several ways to order ARCS permits and charts in MBA manager:

- From the Catalogue page:
- From the New charts page.
- From the Route Planner

ORDER PROCESS

The procedure for ordering ARCS permits and charts is as follows:

- Build a list of ARCS permits to order.
- Press the **Order** button to open the **Order** dialog.
- Select the charts to be downloaded.
- Press the Send button

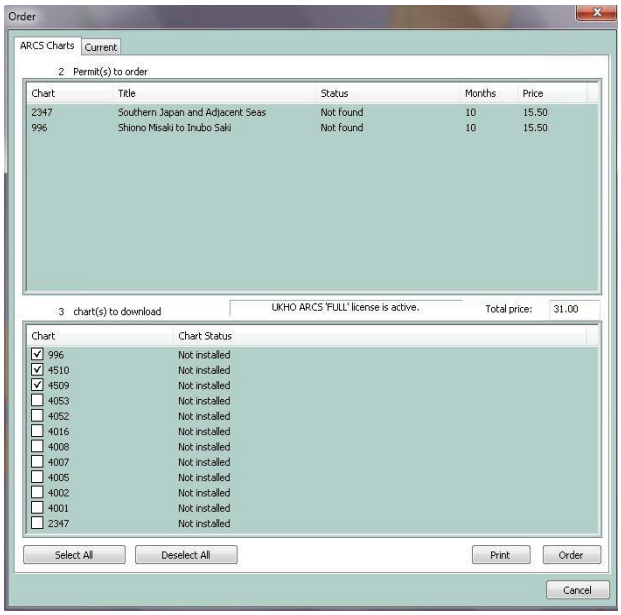
ORDER FOLLOW UP

All ordered charts are displayed in Orange in the Catalogue. When the file containing the ARCS chart permits is received on board (and applied when ECDIS is in use) the Standing Folio is updated with all charts with valid permits.

ORDER PROCESS: ORDER DIALOG

The procedure for ordering ARCS permits and charts is as follows:

- Build a list of ARCS permits to order from New Chart dialog, from the catalogue or the Route Planner.
- Press the **Order** button to open the **Order** dialog.
- Select the charts to be downloaded.
- The reply containing MBA updates is sent by default to the ship email address.
- Press the **Order**
- button



Reply email address

The reply containing MBA updates is sent by default to the ship email address. To receive the reply to another address selects the new recipient in the list activated by pushing the small arrow.

When the order is sent the user can follow up the order and on reception the Standing Folio will be updated. Then the update must be applied in ECDIS and the ARCS databases in MBA and ECDIS900 must be properly synchronized.

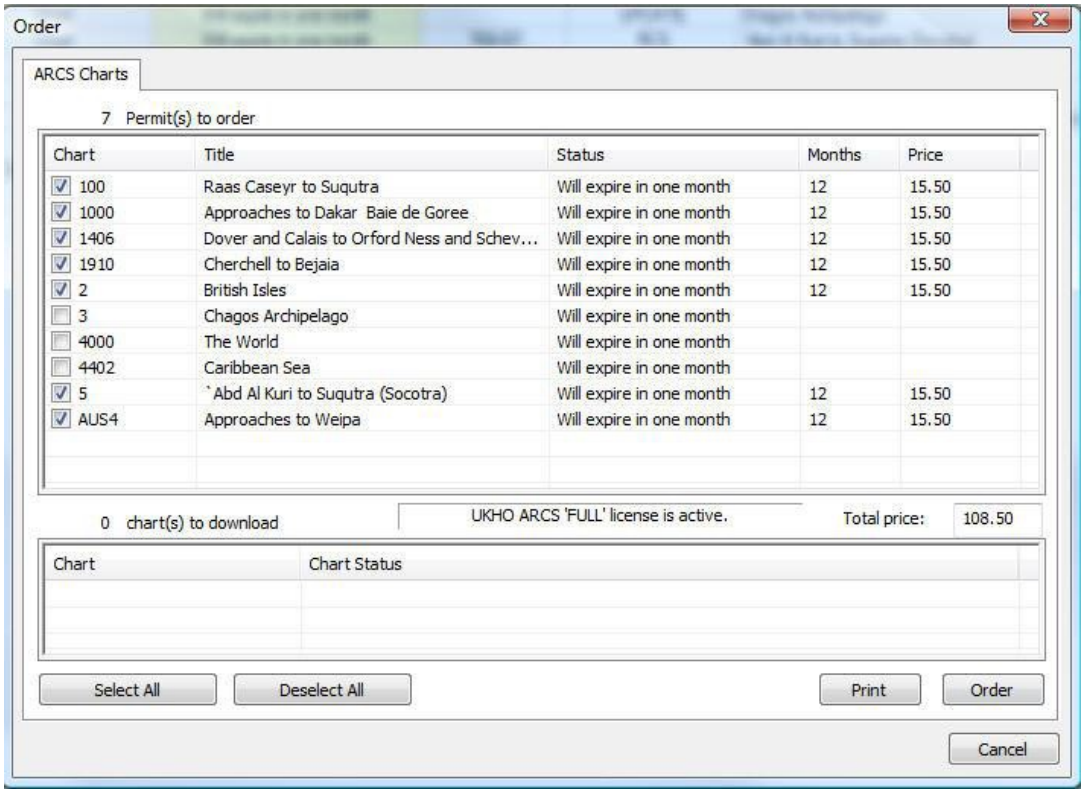
In order to optimize the communication costs the user MUST install the ARCS charts from the ARCS CDs available on board before requesting to download missing ARCS charts.

RENEW EXISTING PERMITS

One month before the expiration date of the permits the column ***Permits*** of the Catalogue, SF and WF pages displays in yellow "***Will expire in one month***" and the order status in marked as in ***"Basket"***.

WF	Chart	Edition	Scale	Type	Permit
☐	**2**	20120830	1: 1 500 000	Chart	Will expire in one month
☐	**3**	20120621	1: 360 000	Chart	Will expire in one month
☐	**5**	20070315	1: 350 000	Chart	Will expire in one month
☐	**100**	20110310	1: 350 000	Chart	Will expire in one month
☐	**1000**	20091203	1: 50 000	Chart	Will expire in one month
☐	**1406**	20121018	1: 250 000	Chart	Will expire in one month
☐	**1910**	20120531	1: 300 000	Chart	Will expire in one month
☐	**4000**	20060810	N/A	Sheet of plans	Will expire in one month
☐	**4402**	20120712	1: 2 750 000	Chart	Will expire in one month
☐	**AUS4**	20120628	1: 75 000	Chart	Will expire in one month

All charts are then added to the list of permits to order in the **Order** dialog.



RENEWAL

To renew the permits it is necessary to select in the **Order** dialog the charts to renew by toggle ON the check box displayed in front of each chart and press the button **Order**.

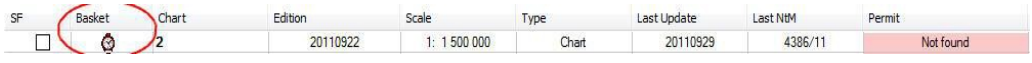
IMPORTANT

After the new permits are received, the charts which have not been renewed will remained displayed as in "Basket" in Catalogue, WF and SF pages until the expiration date.

These charts will also remain in the list of permits to order until expiration date but due to limitations of the UKHO ordering service it is impossible to send another renewal request. To order again these charts place an order after the expiry date.

ORDER FOLLOW UP

In Catalogue Page, all ordered charts are identified with "clock" symbol in column "Basket".



- When the permits are received in MBA, the permits must be installed in ECDIS.
- THE ARCS chart must be installed in ECDIS900 from the base or update ARCS CDs.

ADLL MANAGER

PRINCIPLE

Admiralty Digital List of Lights is a standalone application manufactured by UKHO. The list of lights is updated either by CD or by accessing UK HO to web site.

MBA proposes an automatic management of the ADLL updates, i.e. MBA server will send weekly all necessary updates for the ADLL areas on subscription.

In addition at any time the user can send a request by email to MBA server to get missing ADLL data for selected areas and selected weeks.

Once received on board as email attachment the update must be run in MBA. Then the ADLL update file with signature "**.adllu"**, ("**areas1and2.adllu"** for the area 1&2 for example) is extracted and copied on the hard disk in the folder "**C:/Marinerdata/ADLL".**

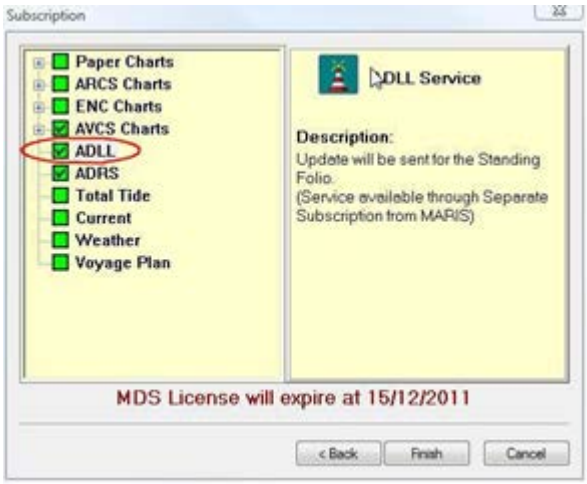
The user must:

- Copy the file to a memory drive if the ADLL application is not running on the same PC
- Apply the update using the ADLL application update function.

SUBSCRIPTION

To be able to receive ADLL updates it is required to subscribe to MBA ADLL service:

- Contact ChartService in Maris AS to confirm the subscription to ADLL service by signing a contract. After this box will be shown with green Status
- Toggle ON the box and send subscription request to activate Weekly update service for ADLL.



IMPORTANT: If MARIS ChartService has not received order confirmation the check box is displayed in RED and the ADLL service does not start.

Please contact MBA sales department for more information.

ADLL PAGE

The world is divided in 9 different areas listed in the Catalogue. The user must order the access codes for one or several areas to be able to use the ADLL software. Then he can get automatically the update for these areas by subscribing to MBA service .

The 9 areas are displayed on the world map of the route planner. The user may order access code for selected areas or change the list of ADLL areas on subscription from the Route planner.

ADLL CATALOGUE

SF	Basket	Name	Edition	Title
☑		**Area 3**	2007	Northern Waters
☐		**Area 4**	2007	Med. Balck seas
☐		**Area 5**	2007	Indian Ocean Red Sea
☐		**Area 6**	2007	Singapore Japan
☐		**Area 7**	2007	Australia Borneo Phil.
☐		**Area 8**	2007	Pacific
☐		**Area 9**	2007	America Caribbean
☐		**Area 10**	2007	SOuth Atlantic Indian
☐		**Area 1+2**	2007	North Europe Baltic

The world is divided in 9 different areas listed in the catalogue and graphically displayed in the Route Planner when the ADLL subscription is selected.

In the picture the area 3 is on subscription.

The Catalogue page is displayed as a spreadsheet. Within the spreadsheet the user may:

- Order the access codes for a selected area, the order can be sent to MARIS or any paper chart agent.
- Check the location of the area on the char by R/Clicking and selecting the menu Location.
- Add new ADLL areas to the subscription in order to receive automatically every week updates.

ORDER ADLL ACCESS CODE

ORDER FROM THE CATALOGUE

The ADLL manager works as follows:

- The user selects the areas to order by R/clicking on the row and selecting “Add To Basket “

SF	Basket	Name
☑		**Area 3**
☑		**Area 4**
☑		**Area 5**
☐	🛒	**Area 6**
☐	🛒	**Area 7**

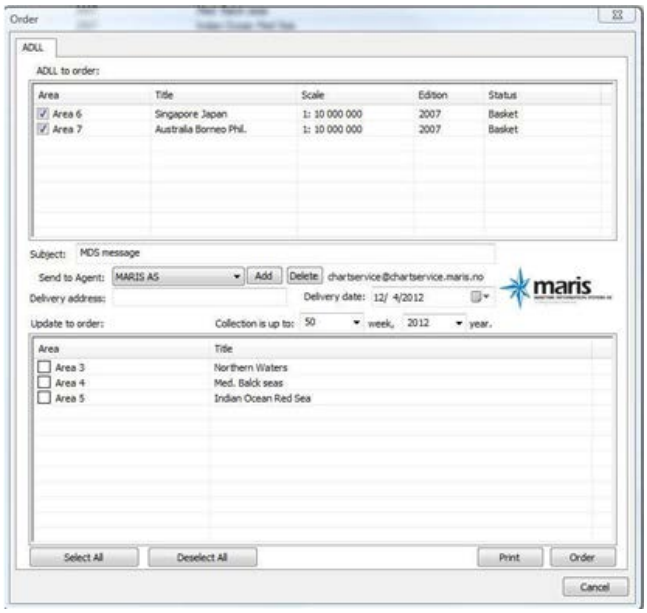
Area 6 and 7 added to the basket

- The user sends the request by pressing the button

The Order dialog is open. (see below picture)

In the frame located on the top are listed new Areas to be ordered. Area 6 and Area7 in example

1. The user selects the Agent, the email address of the recipient is setup accordingly.
2. Delivery address for material if necessary.
3. The user pushes the button “Order” .
4. When the order is sent the status of the area changes to "Ordered". After reception of the access code it is necessary to acknowledge the reception and send the new list of areas on subscription to MBA server.



In the frame located on the bottom are listed Areas already in the Standing Folio, Area 3, 4 and 5 in the example above.

It is possible to order Updates for these areas, after week and year filed are filled up, according to information in ADLL application:

ACKNOWLEDGEMENT OF RECEPTION

ACCESS CODE ON RECEPTION

- The code will be sent either by fax, email or phone and must be entered in the ADLL application as described in the ADLL application user manual.

- When the code is received on board the user must acknowledge the reception by R/licking on the row and selecting the menu Received.
- The area is then automatically added to the chart on subscription but the user MUST send the new list of area on subscription to the MBA server to receive all updates.

ORDER FROM THE ROUTE PLANNER

The user may order access codes from Route planner.

ORDER ACCESS CODE FROM ROUTE PLANNER

When the Route is loaded and the button Get Charts under the route pushed, MBA displays in the panel ADLL the areas related to the route.

To order the missing area (on the picture Area 10 is missing) press the button **Order**, select the recipient (MBA or any UK HO chart agent) and then press Send.

After reception of the access code it is necessary to acknowledge the reception and send the new list of areas on subscription to MBA server.

APPLY ADLL UPDATES

Then MBA server will send back all updates from the selected week to the current week and weekly send automatically updates for the areas and week specified in the order dialog.

When updates are applied in MBA s the update file related to ADLL is saved in the folder C:\MarinerData\ADLL\From 2012_49 to 2012_50 .

The user must transfer the file to a memory drive if the ADLL application is not running on the same PC and apply the update using the ADLL application update functions.

ADRS MANAGER

ADRS management is equivalent to ADLL management. To get complete description see ADLL help.

VOYAGE PLAN

GENERAL

From the last page of the subscription wizard (Menu "**Settings/Subscription"**) the user may check if Voyage Plan service is activated.

IMPORTANT: If MARIS ChartService has not received the order confirmation the check box "Voyage Plan" is displayed in red and "Voyage Plan" module does not start.

The Voyage Plan (VP) allows the user to document each route or voyage, and to produce printed records in a standard format or in XML format file.

When a route is plotted on the chart, information related to the route and waypoints is automatically filled in the VP module. The chart lists (ENC, Paper chart, ARCS) for the planned voyage are also automatically filled in.

Several windows allow entering additional information related to weather conditions, required publications, reporting issues and other required data:

- Vessel information
- Squat calculation
- UKC calculation
- Port information
- Voyage information
- Route Planning

To access the Voyage plan, right click on the route and activate the menu "Voyage Plan" or L/Click the button .

A set of buttons located top of the window allows opening, saving, editing and printing the Voyage Plan.

IMPORTANT: The voyage plan allows also creating the route and entering all waypoint coordinates by keyboard. To create the route activate the button and press to open VoyagePlan.

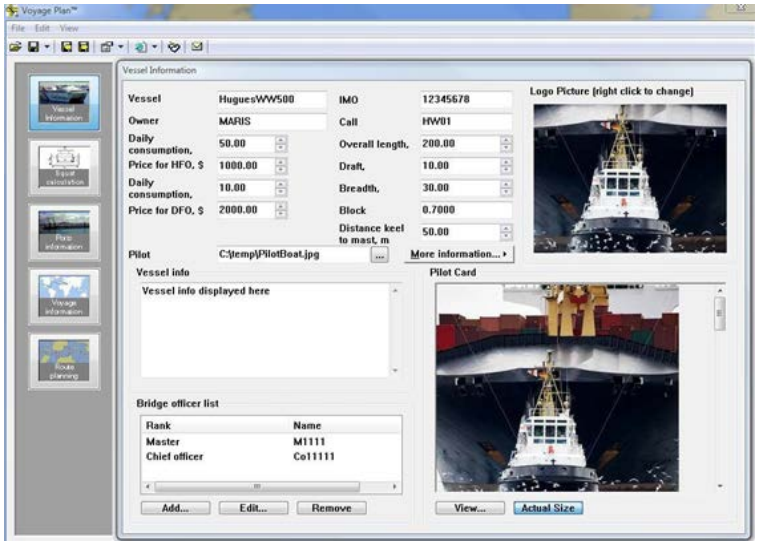
The dialog to create Waypoint manually by coordinates is open.

VESSEL INFORMATION WINDOW

All ship related information must be entered in the Vessel information window. The information is permanent and is used by default for all new Voyage Plans.

The Pilot Card field gives access to a text file, which can be completed with all ship's information, or to scanned document in picture format describing ship's performance and data.

Prepare a file containing all information relative to the ship and press the button "Browse" to link the select the file.



Voyage plan window, vessel information panel

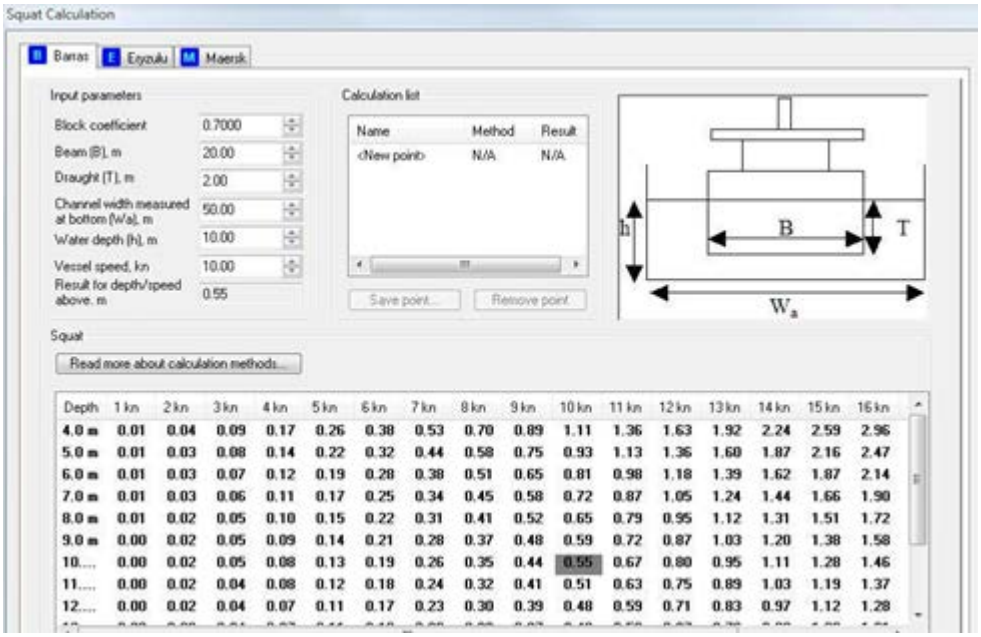
IMPORTANT:

a/ The **Block Coefficient** entered here will be used for squat calculation. **b/ Consumptions and prices** for HFO and DFO allow calculating the consumptions and price for the planned voyage which is displayed in the window Voyage Information.

SQUAT CALCULATION WINDOW

OVERVIEW

There is 3 method of calculation, each one is presented in a proper tab, with details about calculation method:



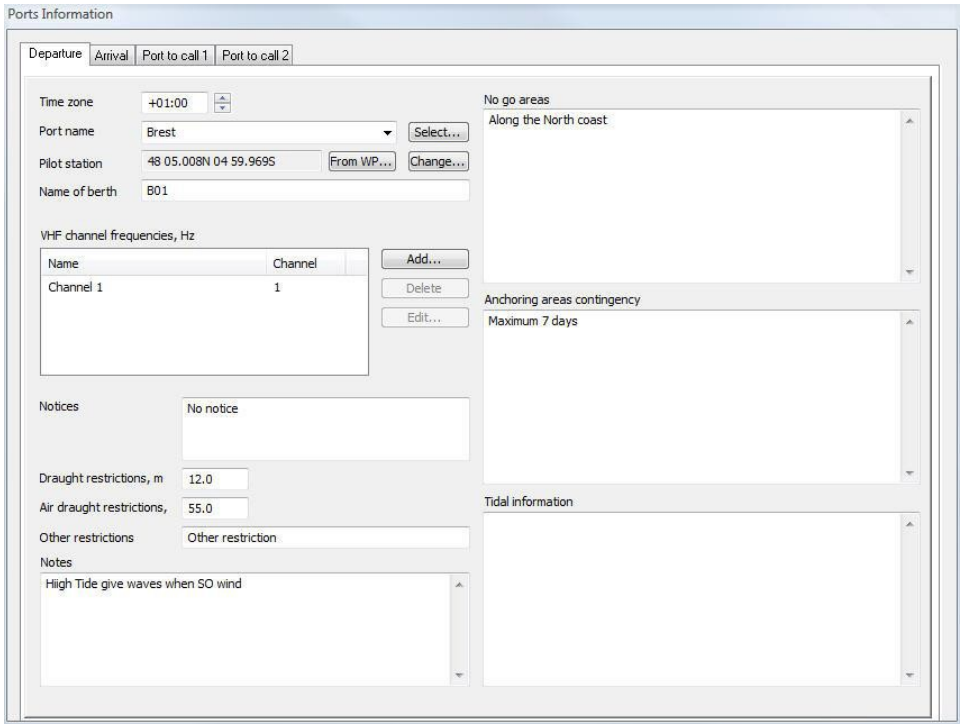
- Select the calculation method by tab
- Fill in all other editable fields
- The calculation is done as soon as a parameter is changed. Press “Read more about calculation method“ for more details.

UKC CALCULATION

The UKC calculation for the route is done for Maersk method, presented leg by leg, and included at the end of the printed Voyage Plan report.

PORT INFORMATION WINDOW

Principle: the Voyage Plan module stores in a database information about ports. The user builds his database of ports of interests by entering manually data.

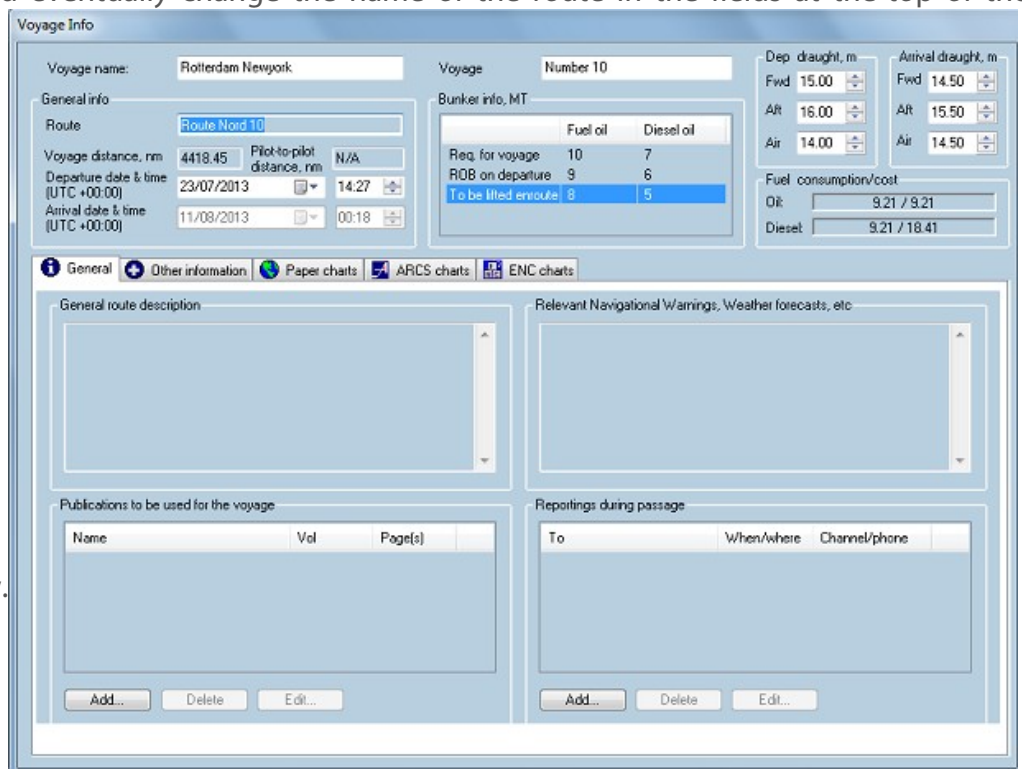


To add a new port entry in the database enters the name of the port and fills in all related information. As soon as a new port name is entered a new entry is added to the database.

To select an existing departure or arrival port use the drag down menu or press the button "Select".

VOYAGE INFORMATION WINDOW

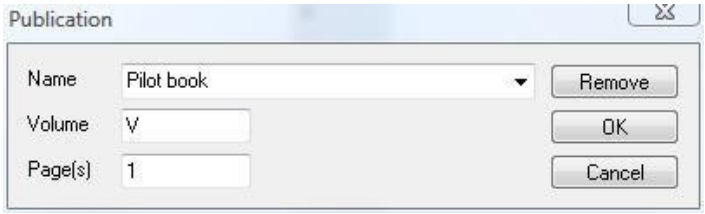
For each voyage, enter the voyage number, the draughts, the departure date and time and eventually change the name of the route in the fields at the top of the window.



Several panels display information related to the voyage:

- General
  - General description of the route: text describing the route
  - Relevant navigation warnings: text related to warnings along the route
  - Publications to be used during the voyage

Principle: the Voyage Plan module stores in a database all publications used on board. The user builds his database of publications by entering manually data. After the database is built he can select the publications to be used during the voyage by drop down menu



The new publication is added to the database.

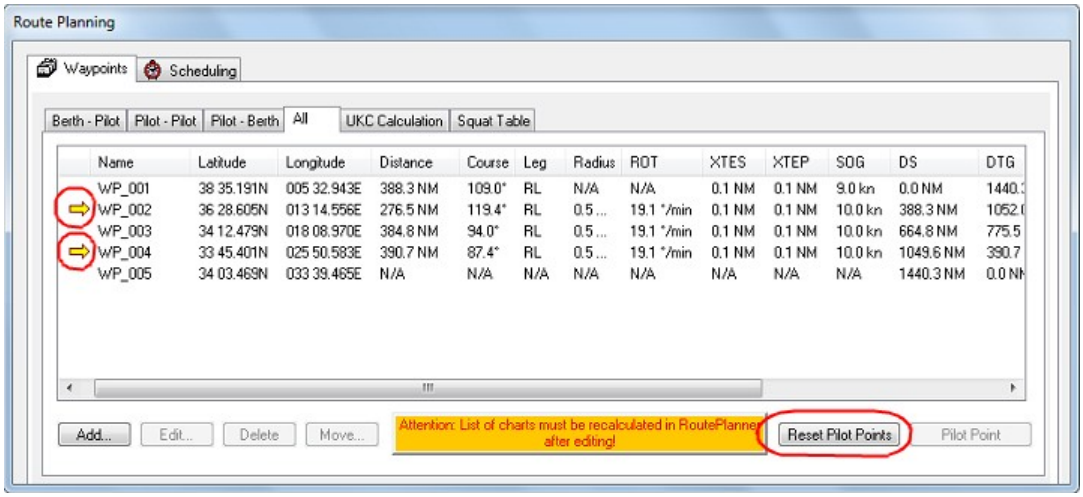
  - Reporting during passage
- Other information
  - Different information about, Position fixing, NavArea region, NAVTEX stations Parallel index lines.
- Charts panels display the list of charts selected in Route Planner.

- **IMPORTANT**: when a waypoint's position is edited or awaypoint added to the route from the voyage plan the lists of charts have to be recalculated in the Route planner. It is necessary to close and save the Voyage Plan and to check the selected lists of charts using he automatic calculation tools or manual control.

ROUTE PLANNING WINDOW

DEFINE THE ROUTE

There is 5 tabs, 3 dedicated to the general information about route, and the 2 last for UKC


Route Planning
Waypoints
Scheduling
Berth - Pilot
Pilot - Pilot
Pilot - Berth
All
UKC Calculation
Squat Table
Name
Latitude
Longitude
Distance
Course
Leg
Radius
ROT
XTES
XTEP
SOG
DS
DTG
WP_001 38 35.191N 005 32.943E 388.3 NM 109.0° RL N/A N/A 0.1 NM 0.1 NM 9.0 kn 0.0 NM 1440.
WP_002 36 28.605N 013 14.556E 276.5 NM 119.4° RL 0.5 ... 19.1 °/min 0.1 NM 0.1 NM 10.0 kn 388.3 NM 1052.
WP_003 34 12.479N 018 08.970E 384.8 NM 94.0° RL 0.5 ... 19.1 °/min 0.1 NM 0.1 NM 10.0 kn 664.8 NM 775.5
WP_004 33 45.401N 025 50.583E 390.7 NM 87.4° RL 0.5 ... 19.1 °/min 0.1 NM 0.1 NM 10.0 kn 1049.6 NM 390.7
WP_005 34 03.469N 033 39.465E N/A N/A N/A N/A N/A N/A N/A N/A 1440.3 NM 0.0 NM
Add...
Edit...
Delete
Move...
Attention: List of charts must be recalculated in RoutePlanner after editing!
Reset Pilot Points
Pilot Point

WAYPOINT AND PILOT MANAGEMENT

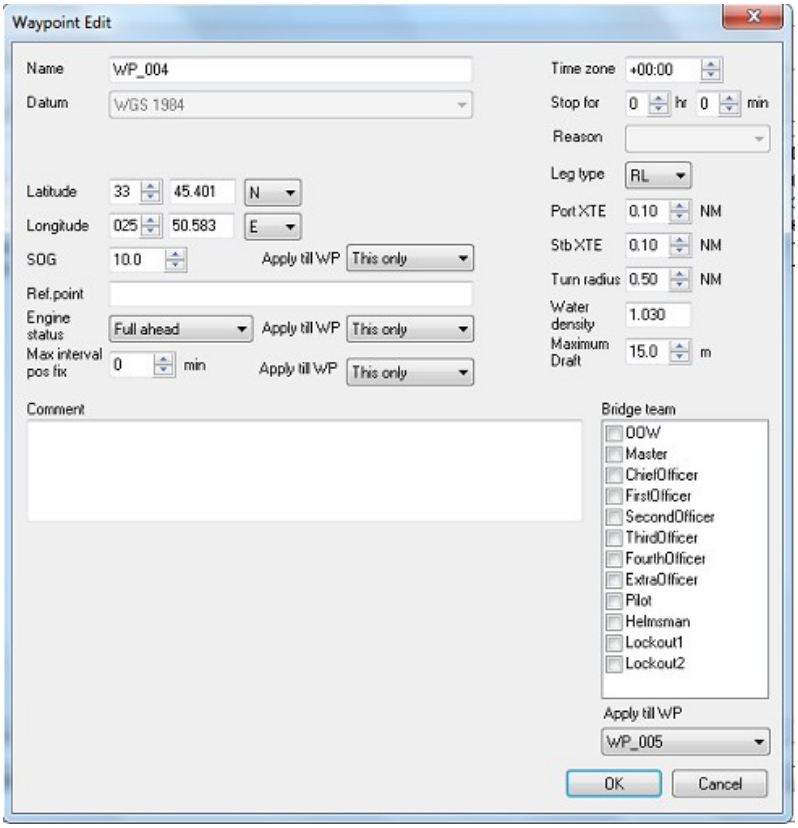
Defining Departure and Arrival waypoint

- In the panel All, click on the name of a waypoint to select it as the Pilot waypoint for Departure
- Push the button "**Pilot Point**"
- In the panel All, click on the name of a waypoint to select it as the Pilot waypoint for Arrival
- Push the button "**Pilot Point**"
- The route is now split in 3:Berth to pilot, pilot to pilot and pilot to Berth.

Press **Reset Pilot** point to cancel the selection of departure and arrival waypoints.

WAYPOINT AND LEG INFORMATION

- Double click on the waypoint name to access the waypoint information window.
- Fill in the fields of interest, if required.
- Apply to WP Menu allows to apply modification to several Way Point for SOG, Engine Status, Max Interval pos fix, Bridge team



EDIT THE ROUTE BY KEYBOARD

- L/Click Add button to add a waypoint by keyboard. The waypoint is entered with a name per default. Click the column header called "**Name**" to rename the waypoint after entering or deleting a waypoint.
- Select the waypoint line and press Edit, Delete or Move to modify the route.
- L/Click the leg type of one waypoint to change the leg type from GC to RL or vice versa
- L/Click the column header called Leg to change all legs types from Great circle to Rhumbline or vice versa
- L/Click the Radius of one waypoint and enter the new value of the Radius for the selected waypoint.
- L/Click the column header called Radius and enter the new value of the Radius for all waypoints
- Use the same method to change one value of the Radius, ROT, XTES, XTSP or SOG to edit the value for one waypoint of for all waypoints of the route at once.

UKC CALCULATION

METHOD

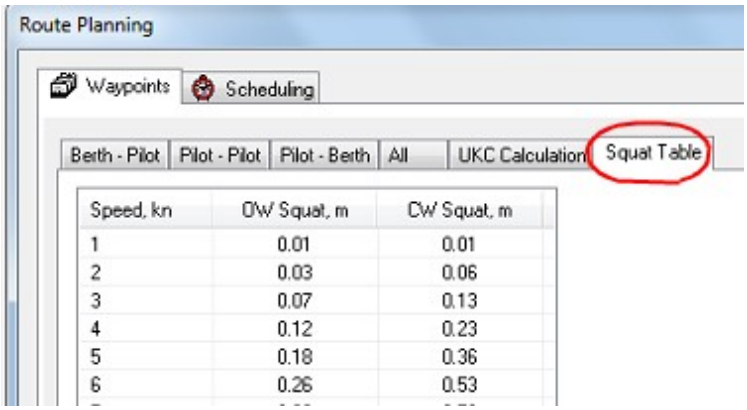
UKC Calculation tab is prepared for “Maersk” method calculation. All information can be entered leg by leg (Leg 1 corresponding to first WP raw, etc...)

Squat calculation method used, described in “Squat calculation page, is the as following:

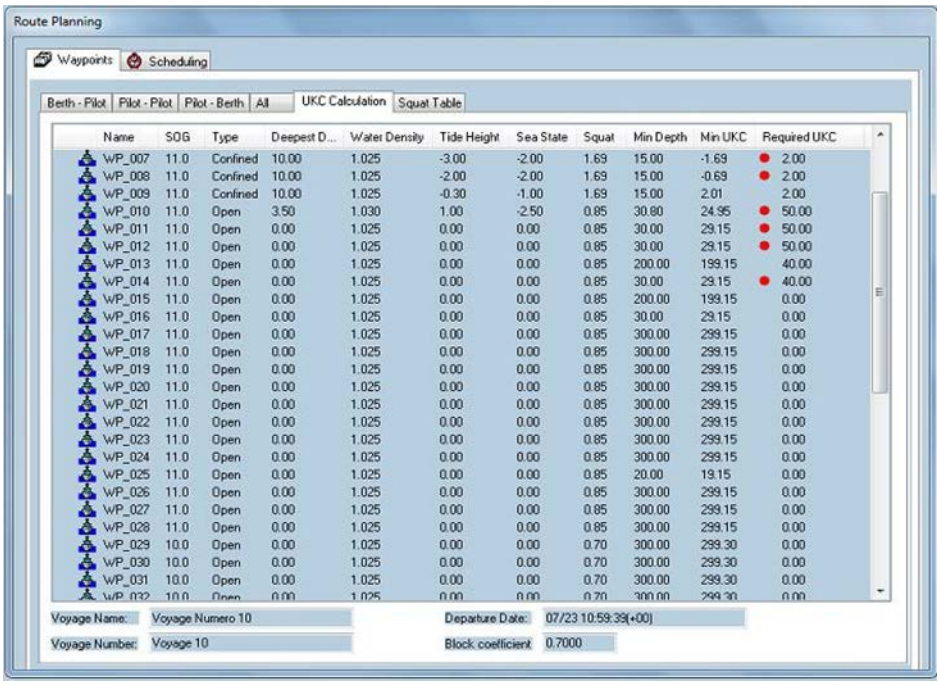
When planning cargo stowage/loading /discharging please ensure that company's policy of maintaining a UKC of 0.9mtrs at all times adhered to.					
SQUAT in CONFINED WATERS					
SQUAT =	$\frac{2 \times Cb \times V^2}{100}$	=	**1.22**		**Legends :**
					V = Speed in knots
SQUAT in OPEN WATERS					Cb= Block Coefficient
SQUAT =	$\frac{Cb \times V^2}{100}$	=	**0.61**		

SQUAT TABLE

The tab "Squat table is giving Squat calculation for different speeds, and for Open and Confined waters:



OVERVIEW



UKC Calculation page: overview

\

PRINCIPLE

All parameters are manually entered under crew responsibility.

Parameters are entered independently leg by leg, and calculation is done leg by leg as well.

The "**Min UKC**" is a processed value. A **Red Warning** is displayed if the "Required UKC" is not matching Required UKC condition:

- **MinUKC** <Required UKC.

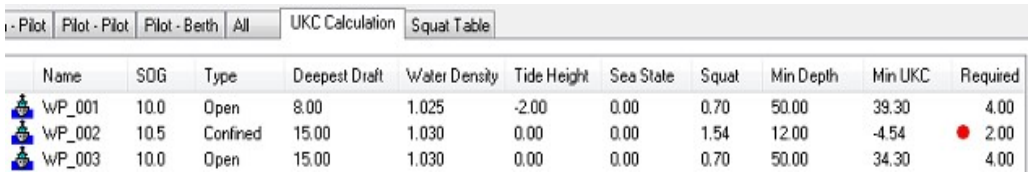
For each leg, following parameters influencing **Min UKC** value, can be entered independently:

- **SOG** : in knots, there is possibility to define one default value per leg type , Confined or Open
- **Type** : Confined , Open
- **Deepest draft**: value to be entered manually.

The Deepest draft is entered based on standard Salted Water density = 1.025g/l. The effective draft is deduced from Deepest Draft and Water Density, and processed into "**Min UKC**" value.

- **Water density**: the value will affect the value of Draft, and therefore the "**Min UKC**" value.(**remark:** the deepest draft value, based on standard SW 1.025g/l will not be changed)
- **Tide Height**: can be entered based on reliable source, and under crew responsibility.Value can be positive or negative, and is added directly to the "**Min UKC**" value.
- **Sea State**: weather conditions can decrease the general usable level of the see (waves, pressure...).For security reason, the value can be only negative, and directly processed into "**Min UKC**" calculation.
- **Squat** : Squat value is calculated out of SOG, Block coefficient, and leg type, Confined or Open, according to the formula above.
- The value is directly processed into "**Min UKC**" calculation.
- **Min Depth** : minimum controlled depth during the leg, there is possibility to define one default value per leg type : Confined or Open/
- The value is directly processed into "**Min UKC**" calculation.
- **Min UKC** : this is the value calculated from others parameters, and compared to the "Required UKC"
- **Required UKC**: company UKC minimum value ; there is possibility to define one default value per leg type : Confined or Open.

A **Red Warning** is displayed to warn the user that min UKC is under Required UKC



Name	SOG	Type	Deepest Draft	Water Density	Tide Height	Sea State	Squat	Min Depth	Min UKC	Required
WP_001	10.0	Open	8.00	1.025	-2.00	0.00	0.70	50.00	39.30	4.00
WP_002	10.5	Confined	15.00	1.030	0.00	0.00	1.54	12.00	-4.54	2.00
WP_003	10.0	Open	15.00	1.030	0.00	0.00	0.70	50.00	34.30	4.00

UKC warning on leg 2

OTHER FUNCTIONS

OPEN A ROUTE

Press the Open icon to select a route from the database.

SAVE THE VOYAGE PLAN

Press the Save icon to save the Voyage Plan information.

IMPORT / EXPORT ROUTE

Press one of the icons to export the route and the associated file containing the voyage information. Indeed a complete description of a voyage plan is two files:

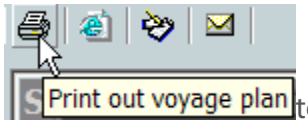
- The route file as created in Route Planner
- A file containing additional information

This function is used to share the same route and voyage plan between MARIS Voyage Plan user.

EDIT ROUTE PROPERTIES

Press the icon to access the properties dialog of the route to amend them eventually.

PRINT

Press the Print icon 

to print the voyage plan (provided the PC is connected to a printer).

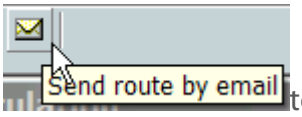
EXPORT TO XML

Press the XML icon to export the Voyage plan to XML format readable with Microsoft Explorer

WAYPOINT PROPERTIES

Select a waypoint and press the icon to edit the waypoint

SEND THE ROUTE BY EMAIL

Press the icon 

to send the route by email

WEATHER MANAGER

GENERAL

PRINCIPLE

The weather module allows displaying 5, 7 or 9 days weather forecasts data for selected area(s). The user selects the areas to subscribe to and MBA server automatically sends daily the weather forecasts for these areas.

The weather module supports the International GRIB and GRIB2 formats and displays several layers including current, wind force and direction, pressure, swell, waves, typhoon trajectory and ice limits.

The weather forecasts are received on board as email attachment and MBA extracts, unzips and copies on the hard disk in the folder ECDIS_userdata/weather.

IMPORTANT: the new downloaded files replace the previous one for the selected areas. No historic file is stored in the system.

SUBSCRIPTION

To be able to receive weather forecasts it is required to subscribe to MBA Weather service the user must:

- Toggle ON Weather service In the subscription wizard xxxx

  - Weather : Weather data, Provider defined in MCP
  - Current: "SAT Ocean" provider, custom area order service
- Contact ChartService in Maris AS to confirm the subscription to Weather service by signing a contract.

IMPORTANT: If MARIS ChartService has not received the order confirmation the check box will be displayed in RED and the weather forecasts service does not start. Please contact MBA sales department for more information.

There are two kind of subscription: 5 - 7 or 9 days forecasts. ***IMPORTANT***: the 9 days forecasts concern only the ocean areas, for local areas only 5 days forecasts are available.

WEATHER DATA

MBA Server sends automatically every day the weather layers for the areas on subscription. The daily update zipped file contains three types of information:

- A GRIB file including wind force and direction, pressure, swell, waves
- A file containing the typhoons history and forecast for the entire world
- A file containing ice limits for the world.

WEATHER CATALOGUE

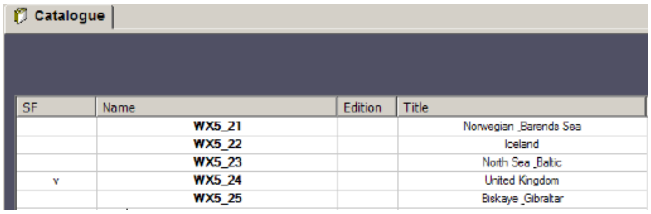
The world is divided in 37 different areas listed in the Catalogue:

- 7 areas named WX9_xx covering an ocean or part of ocean at resolution of 2.5 or 2 degrees.
- 30 local areas named WX5_xx at 1 or 0.5 degree resolution (data every degree)

The user must select the areas from the Catalogue or from the Route Planner, subscribe to MBA server and the server will send daily weather forecasts for the selected areas.

IMPORTANT: Better resolution means that the local area forecasts file contains more data and therefore is bigger than the ocean files with lower resolution.

WEATHER CATALOGUE



In the picture the area WX5_24 is on subscription and weather data for this area is sent daily by MBA Server.

The world is divided in 30 local and 7 ocean areas listed in the catalogue and graphically displayed in the Route Planner when the Weather subscription is selected.

The Catalogue page is displayed as a spreadsheet. Within the spreadsheet the user may:

- Check the location of the area on the char by R/Clicking and selecting the menu Location.
- Add new weather forecasts areas to the subscription in order to receive automatically every day the weather data for the areas on subscription. **Remark:** areas can be selected form the Route Planner.
- Cancel all areas from his subscription

ADD WEATHER FORECAST AREAS TO THE SUBSCRIPTION

FROM THE CATALOGUE

The weather manager works as follows:

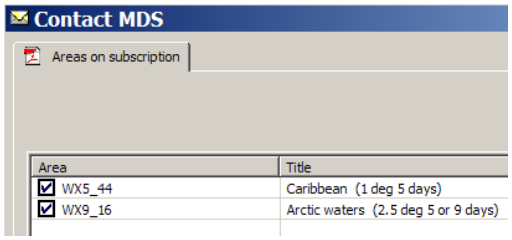
- The user selects the areas to subscribe to by double L/clicking in the column SF.
- Bottom of the window shows:

•

WX9_12 South Atlantic (2.5 deg 5 or 9 days)
WX9_13 Indian Ocean (2.5 deg 5 or 9 days)
WX9_14 North Pacific (2.5 deg 5 or 9 days)
WX9_15 South Pacific (2.5 deg 5 or 9 days)
v WX9_16 Arctic waters (2.5 deg 5 or 9 days)
WX9_17 Antarctic waters (2.5 deg 5 or 9 days)

In the picture the area WX9_16 is added to the subscription and the Working Folio must be sent to the MBA Server in order to receive the weather forecasts for this area.

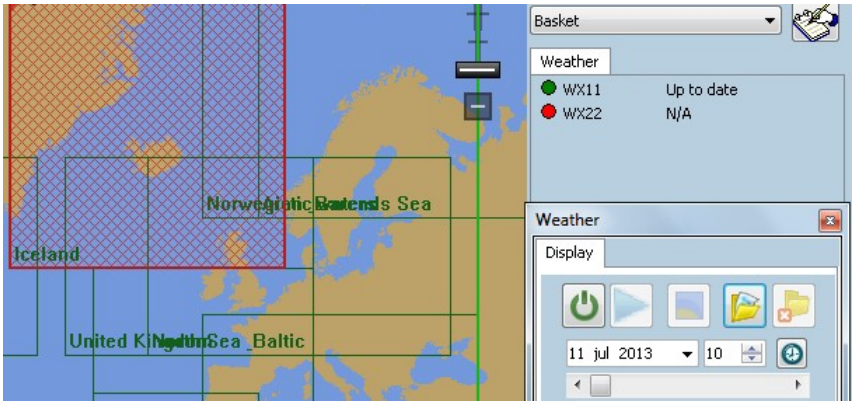
- The user sends the new list of areas on subscription to MBA server by pressing the button **Order**



ADD WEATHER FORECAST AREAS TO SUBSCRIPTION FROM ROUTE PLANNER

SELECT WEATHER CHARTS

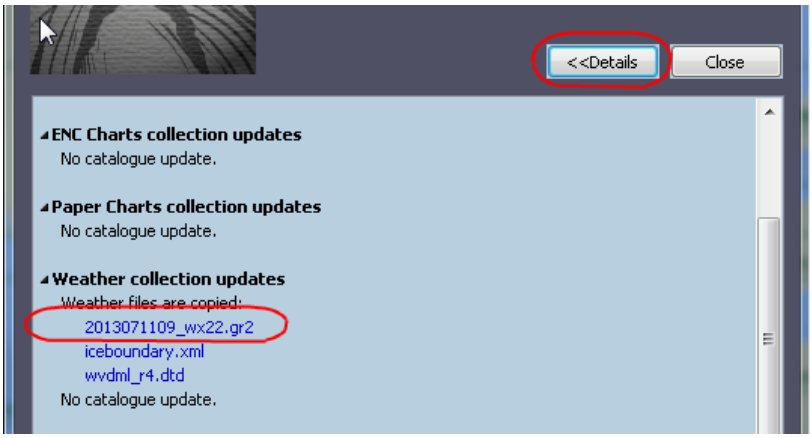
When the Route is loaded and the button Get Charts under the route pushed MBA displays in the panel Weather the areas related to the route.



To order the missing areas (on the picture Iceland and Canadian coast) press the button **Order** and then press Order.

RECEIVING WEATHER

When weather data is received, update Status is displayed, and it is possible to click on the link (in blue) to display the data in Route Planner



In the example above the user will receive every day weather forecasts at a resolution of 2.5 or 2 degrees on North Atlantic area and more precise data with resolution of 1 or 0.5 degree around Iceland and approaching Canadian coasts.

The weather module displays either one selected GRIB file (North Atlantic or Iceland) or using the option Autoloading all available files. In this case the system automatically manages the seamless display and the selection of the most precise data according to the scale.

CANCEL WEATHER FORECAST SENDING

To cancel the sending of weather data to the ship deselect all areas on subscription and send the new empty working folio to the server.

CURRENT DATA ORDERING

Current ordering is only by request.

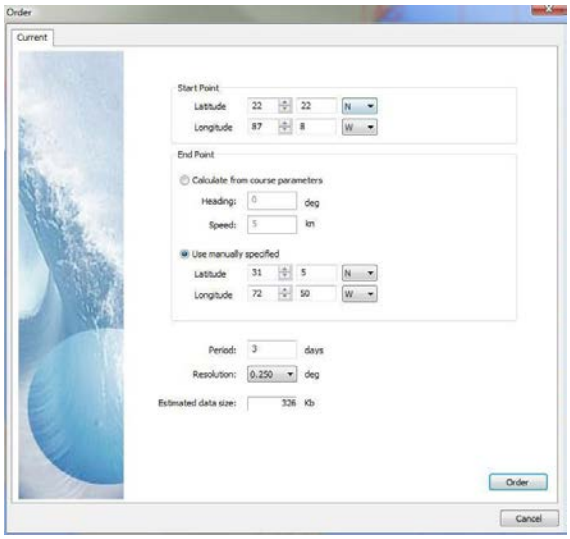
Current area is User defined and not depending on Predefined areas like for the weather.

There is 2 ways to open Dialog for ordering current in Route Planner:

- Right Click, select an area, and choose by menu “Order current by area”

- Press Order button and select tab “Current”

Dialog is open

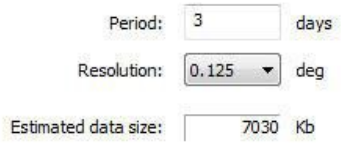


When dialog is open, there is 2 ways to define the area

- Currents defined by Ship Position, speed and heading.
- Current defined by coordinates.

In addition it is possible to choose

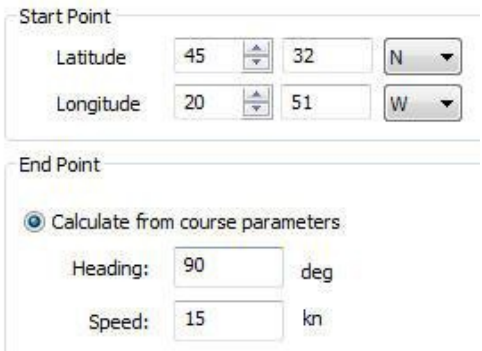
- Duration: from 1 to 5 days
- Precision: 0.125, 0.250, 0.500, 1.000, 2.000 degres Estimated size for the data is calculated and displayed



ORDER CURRENT USING SHIP COURSE PARAMETER

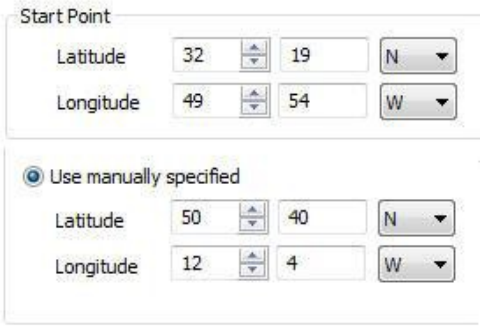
Select option "Calculate from course parameter"

Enter manually Start point coordinates (ship position)



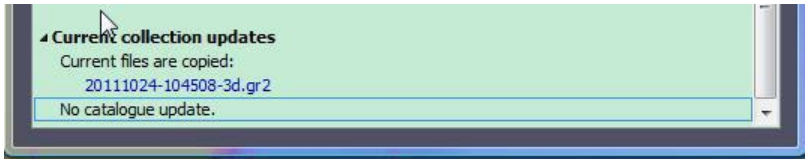
ORDER CURRENT AREA GRAPHICALLY

Using menu "Order currents for area", the rectangle is automatically setup with Start point and Use manually specified parameter. Adjust if necessary.



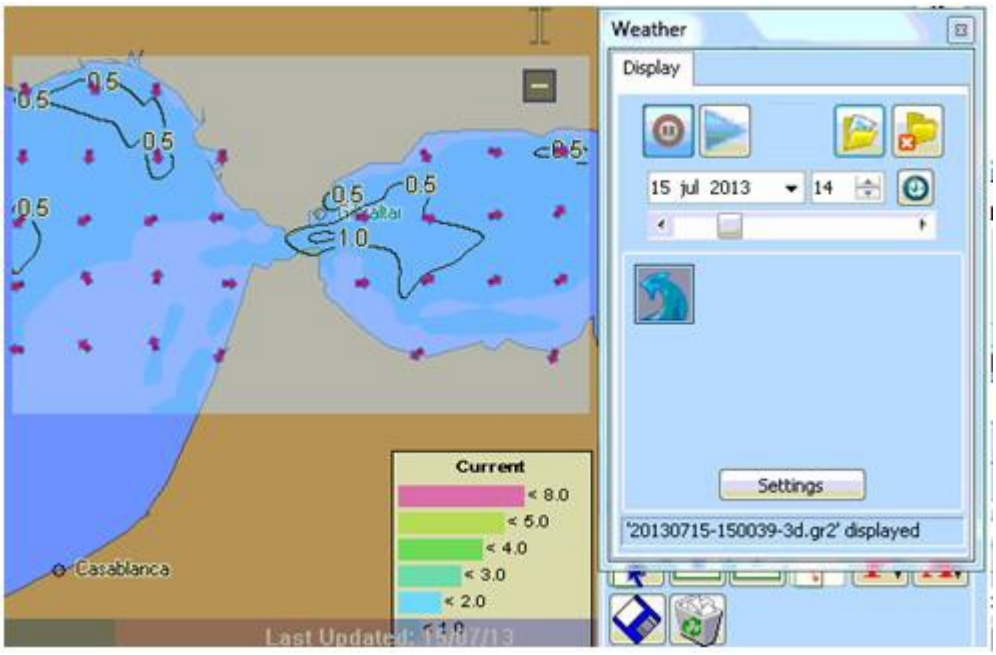
RECEIVING CURRENT

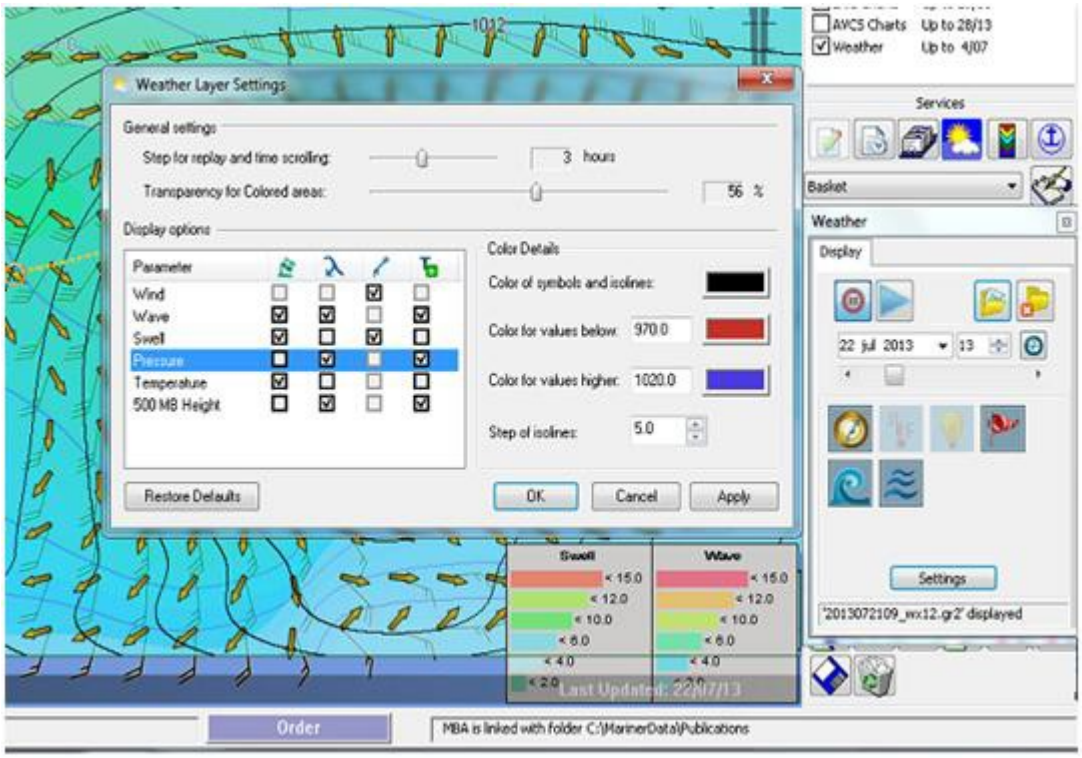
When current is received, update Status is displayed, and it is possible to click on the link (in blue) to display the data in Route Planner



WEATHER FORECASTS DISPLAY

In Route Planner pressing the button displays the wea ther dialog.





The user may:

Activate/**Deactivate** weather display

Play/**Stop Play** weather file

Load/**Unload** Weather or Current file

Select date/Time

To display the weather situation at selected time use the horizontal scroller to change the time or edit directly the time in the text box

To display the situation at the current time push the button .

Layer control

When weather data is loaded, available layer (Pressure, Temperature, Wind etc... are represented with a symbol. The symbol is greyed if not displayed.

Pressure display OFF/ON

Temperature display OFF/ON

Pressure 500mb display OFF/ON

Wind display OFF/ON

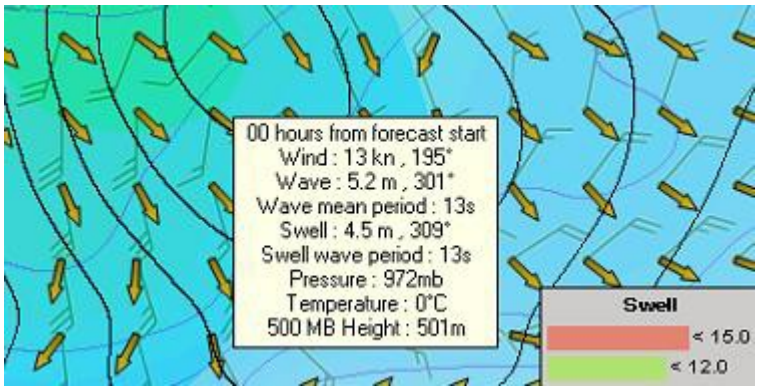
Wave display OFF/ON

Swell display OFF/ON

Current display OFF/ON

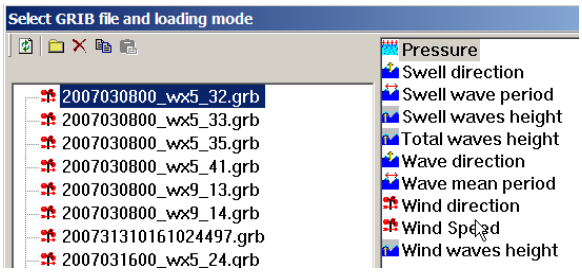
Weather information

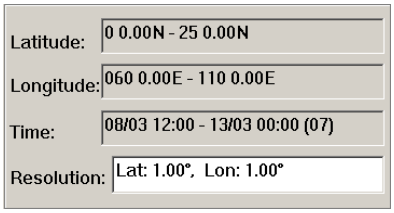
R/Click on the chart displays the values of all parameters at this location for the selected time.


00 hours from forecast start
Wind : 13 kn , 195°
Wave : 5.2 m , 301°
Wave mean period : 13s
Swell : 4.5 m , 309°
Swell wave period : 13s
Pressure : 972mb
Temperature : 0°C
500 MB Height : 501m
Swell
< 15.0
< 12.0

LOAD / UNLOAD WEATHER FILES

Press the button to select a file and load it





The dialog "Open" displays the set of layers included in the file, the forecast period, the resolution of the file and the coordinates of the area.

Unload

To unload the weather data file(s) press **Unload All**, or button

Ice limits and Typhoon information

The ice limits and Typhoon trajectories files are loaded automatically when one of the weather data file is loaded.

Autoloading

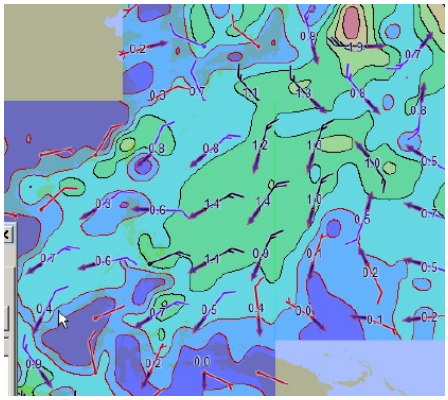
The mode Autoloading allows loading dynamically one or several weather forecasts file. They are displayed in a seamless way even the files have different resolutions (0.5, 1, 2 or 2.5 degrees).

Activation: when no file is loaded, press or and in sequence. The status is displayed:

The system selects automatically the most precise data and complete eventually, the screen with data extracted from the file with lower resolution.

When Autoloading mode is selected the weather data with resolution of 1 degree are loaded and displayed only when the scale is higher than 1 / 20 000 000.

IMPORTANT: the automatic loading of file is possible only of the selected date matches the date of the weather forecasts.



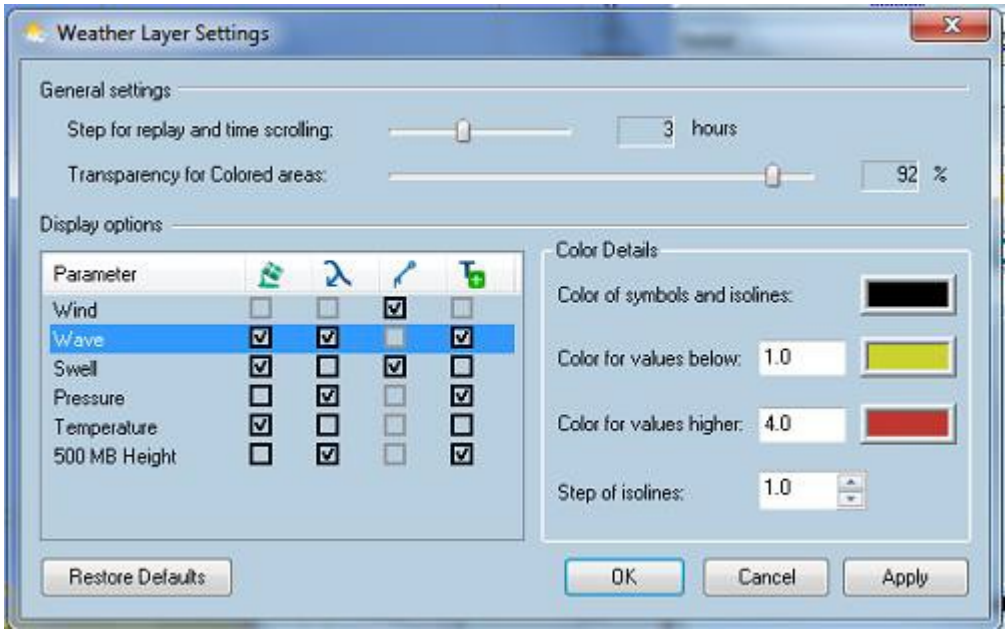
Two files 2 degrees are loaded simultaneously

CUSTOMIZE THE DISPLAY

All parameters can be displayed as colored areas, isolines and text values. Wind, wave and swell can also be displayed with standard symbols.

Remark: only one parameter can be displayed as colored area at the time.

The button Settings for each parameter gives access to more advanced display settings:



- Step of replay fixes the interval between two images during the replay.
- Transparency parameter: high value makes the display of the weather situation more transparent on the chart.
- Color coding for symbols and isolines

  - Symbols or lines with a value lower then the selected "Color for Values below" are displayed with the selected color
  - Symbols or lines with a value higher then the selected "Color for Values higher" are displayed with the selected color.
  - Symbols or lines with a value between are displayed with the first line color.
- Interval between isolines is set with the parameter called Step. The increment depends on the type of parameter and may be integer or decimal number.
- Color coding for area: the colors go from cold colors (dark blue) for low values to warm colors (Red) to high values; intermediate values are displayed with a range of colors between. The scale depends on the type of parameter. It is recommended to display the Text value to get familiar with the coding.

ANIMATE WEATHER DATA

SELECT DATE / TIME

To display the weather situation at selected time use the horizontal scroll bar to change the time or edit directly the time in the text box

.

To display the situation at the current time push the button .

ANIMATION

The animation helps the user to have a better understanding of the weather evolution.

Push the button to start.

Interval between two pictures is editable in the settings of any of the parameters.

PREDICTION AND PREDICTION ALONG THE ROUTE

This part has been moved to VDS module.

RESCUE SOLUTIONS

DOWNLOAD CATALOGS

It is possible download full catalogs by menu "Tools/Download catalogs":

- Paper charts
- T&P layer
- ENC charts
- AVCS charts
- ARCS charts

This can be useful after "catalog update process" failed during weekly update process.

IMPORTANT: ERROR IN APPLYING UPDATE

If a weekly update has been lost and a new update file is received the user will be informed that the catalogue cannot be updated.

The button "**Check My Status**" in **Status** page turns red and MUST be pushed in order to get the missing catalogue update.

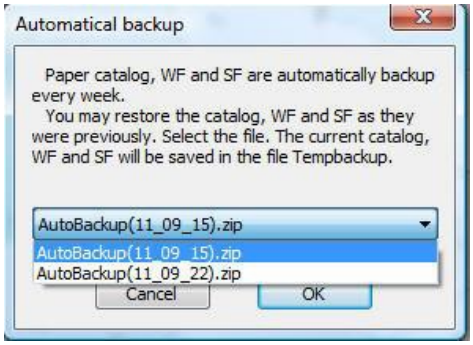
For example the catalogue is up-to-date till week 10. The current week is week 13 and an update for the week 13 is received**. MBA will not be able to apply properly the received update before all previous updates are applied.** Then the user should request the missing update by pushing the button **Send** in Order dialog.

ROLL BACK CATALOGS

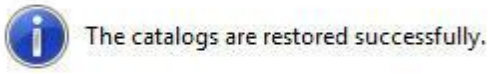
For Paper Chart only. Available by "Shift D" key, in Paper Tab

Initial State displayed in Paper Charts Status page:

A backup of Paper Chart catalogue is kept in the system for 2 weeks. In case of problem occurring during update, it is possible to Roll back to a previous consistent catalogue selecting one of the last 2 saved files, identified by the date.


Automatical backup
Paper catalog, WF and SF are automatically backup every week.
You may restore the catalog, WF and SF as they were previously. Select the file. The current catalog, WF and SF will be saved in the file Tempbackup.
AutoBackup(11_09_15).zip
AutoBackup(11_09_15).zip
AutoBackup(11_09_22).zip
Cancel
OK

Press OK and popup window is displayed :



Catalogue is now back to selected Week , here Week 27

CONTACTING MBA

CORPORATE HEADQUARTERS

MARIS (www.maris.no) is a limited company with head office located in Tønsberg, Norway, a recognized centre for maritime information technology. The company has delivered thousands of navigation systems to customers all over the world and is internationally recognized for its innovative and user friendly solutions to navigation problems.

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Office hours:	8am to 4pm

TECHNICAL SUPPORT

Locate your product serial number or maintenance contract number.

Find the version of MBA by moving the cursor on top of the button "HELP"

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24-hour World Wide Web support:	www.maris.no